**Collaborative Testing Services, Inc**

**FORENSIC TESTING PROGRAM**

# DNA-Mixture Test No. 23-5801
# Summary Report

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 156 participants and are compiled into the following tables:

# Manufacturer's Information

Each sample pack consisted of two known bloodstains on white fabric (Items 1 & 2), and two questioned stains on clean, colored fabric (Items 3 & 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains on Items 1, 2, and 3 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 4 was a mixture prepared from human whole blood and semen. Item 1 (50 $\mu$l) was prepared using blood collected from a female donor. Item 2 (50 $\mu$l) was created using blood collected from a male donor. Item 3 (50 $\mu$l) was created using a 1:1 mixture of blood from the female donor used in Item 1 and blood from the male donor used in Item 2. Item 4 (50 $\mu$l) was created using a 1:1 mixture of blood from the female donor used in Item 1 and semen from a male whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 03, 2023 following completion of the verification stage.

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

VERIFICATION: All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results were reported for all STR and YSTR loci.

# Manufacturer's Information, continued

## Amelogenin and STR Results

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

| Item | D1S1656<br>D7S820<br>D18S51<br>FGA<br>vWA | D2S1338<br>D8S1179<br>D19S433<br>Penta D<br>DYS391 | D2S441<br>D10S1248<br>D21S11<br>Penta E<br>DYS570 | D3S1358<br>D12S391<br>D22S1045<br>SE33<br>DYS576 | D5S818<br>D13S317<br>Amelogenin<br>TH01<br>Y Indel | D6S1043<br>D16S539<br>CSF1PO<br>TPOX |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | * |
|   | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
|   | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
|   | 22,25 | 9,12 | 13,13 | 18,28.2 | 7,9 | 9,11 |
|   | 14,15 | NM | NM | NM | NM | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | * |
|   | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
|   | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
|   | 23,23 | 2.2,11 | 7,11 | 16,19 | 9,9 | 11,12 |
|   | 15,17 | 11 | * | * | 2 | |
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | * |
|   | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
|   | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
|   | 22,23,25 | 2.2,9,11,12 | 7,11,13 | 16,18,19,28.2 | 7,9 | 9,11,12 |
|   | 14,15,17 | 11 | * | * | 2 | |
| 4-Blood | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | * |
|   | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
|   | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
|   | 22,25 | 9,12 | 13,13 | 18,28.2 | 7,9 | 9,11 |
|   | 14,15 | NM | NM | NM | NM | |
| 4-Semen | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | * |
|   | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
|   | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
|   | 22,23 | 12,13 | 7,12 | 16,27.2 | 7,9.3 | 8,11 |
|   | 15,17 | 11 | * | * | 2 | |

## YSTR Results

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

| Item | DYF387S1<br>DYS437<br>DYS518 | DYS19<br>DYS438<br>DYS533 | DYS385<br>DYS439<br>DYS549 | DYS389-I<br>DYS448<br>DYS570 | DYS389-II<br>DYS449<br>DYS576 | DYS390<br>DYS456<br>DYS627 | DYS391<br>DYS458<br>DYS635 | DYS392<br>DYS460<br>DYS643 | DYS393<br>DYS481<br>Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
|   | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
|   | 38 | 11 | 13 | 22 | 20 | 21 | 23 | 10 | 12 |
| 3 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
|   | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
|   | 38 | 11 | 13 | 22 | 20 | 21 | 23 | 10 | 12 |
| 4-Semen | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
|   | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|   | 38 | 12 | 14 | 16 | 18 | 23 | 23 | 10 | 12 |

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

NM - Non-Male profile, YSTR results not expected.

# Summary Comments

The 23-5801 DNA-Mixture test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test was designed to allow participants to assess their proficiency in the analysis and comparison of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was prepared using blood from a female donor. Item 2 was created using blood from a male donor. Item 3 was created using a mixture of blood from the female donor used in Item 1 and blood from the male donor used in Item 2. Item 4 was created using a mixture of blood from the female donor used in Item 1 and semen from a male donor whose known standard was not provided. (See Manufacturer's Information for preparation details)

Of the 156 participants that returned results, all but one reported DNA interpretations. The remaining participant selected "No Interpretations" option individually for all interpretation questions.

For the Item 3 stain, all participants included the victim (Item 1) and the suspect (Item 2) as possible contributors.

For the Item 4 stain, all but one participant included the victim (Item 1) as a possible contributor. The remaining participant excluded the victim as a possible contributor. All participants excluded the suspect (Item 2) as a possible contributor to the stain.

A total of 52 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items.

# STR Amplification Kit(s) & Results

## TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 1 - STR Results

**23PEJV — GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**28WCKM — GlobalFiler™  (STRmix)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**2TDMM7 — GlobalFiler™  (STRmix)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**34CHJF — GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**3HAURJ — PowerPlex® Fusion**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**3RKGXL — PowerPlex® Fusion 5C**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | NR | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

**3UPLFT  PowerPlex® Fusion**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**46JPEZ  GlobalFiler™ PCR Amplification Kit**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**4DT64B  PowerPlex® 5C**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | -- |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | -- | 7,9 | 9,11 |
| | 14,15 | -- | -- | -- | -- | |

**4JYFZ2  GlobalFiler™**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**4KT9VK  GlobalFiler™  (STRmix)**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | -- |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | -- | -- | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | -- | -- | -- | -- | |

**4PNFE3  GlobalFiler™**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NM | | | NM | |

**63RK2Z  PowerPlex® Fusion 5c**

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

# TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 1 - STR Results

| WebCode / Item | | | | | | |
|---|---|---|---|---|---|---|
| 6ATX4N | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| 6MFMWA | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | - |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | - | - | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | - | - | - | - | |
| 6QHDGF | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | NR | | | | |
| 72E7EQ | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| 74ZNAQ | GlobalFiler™ Express | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |
| 7JX86M | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| 7KACVC | GlobalFiler™ Express | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | No Results | | | No Results | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

**7LXZVJ** GlobalFiler™ (GeneMapper ID-X 1.6) — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**7PZENV** GlobalFiler™ — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**7VTBGT** GlobalFiler™ — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**7Z2CDQ** GlobalFiler™ Express — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**7ZYPT7** PowerPlex® Fusion 6C — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**83MBHL** Investigator® 24plex — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | N/A | | | | |

**86CC72** GlobalFiler™ — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 1 - STR Results

**8R7ZWU — PowerPlex® Fusion**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**9232PY — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NM | | | NM | |

**9F7P2R — PowerPlex® Fusion**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**9HVRQM — GlobalFiler™ Express**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |

**9JZL4X — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NM | | | NM | |

**9NLNF4 — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**A8B6FQ — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

# TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

**AKDVU4 — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**AKJFZE — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | NR | | | | |

**APU2X6 — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**ATU4PR — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**AU6LTC — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | NR | | | | |

**AVHPBM — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**B8ZKTE — GlobalFiler™ Express — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | No Results | | | No Results | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

**BEQAMG — PowerPlex® Fusion 5C — Item 1**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**BZ7EZD — PowerPlex® Fusion 5C — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | NR | | | | |

**BZ8MDJ — PowerPlex® Fusion 5C — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**BZKUE2 — PowerPlex® Fusion 6C — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**BZLGZL — GlobalFiler™ Express — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**CBW3FP — GlobalFiler™ — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**CHJQGM — GlobalFiler™ (STRmix) — Item 1**

| | | | | | |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| Item | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 1 - STR Results

**CKNC9T — GlobalFiler™**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**CNNVH2 — PowerPlex® Fusion**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**D2Q74E — Investigator® 24plex**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NA | | | | |

**D9RMRK — GlobalFiler™**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | NA |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | NA | NA | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NA | NA | NA | NA | |

**DR3PFQ — PowerPlex® Fusion**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**DY9LJK — PowerPlex® Fusion**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**ERXHXV — GlobalFiler™**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

**F2HV6Z** — GlobalFiler™  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NM | | | NM | |

**F2Y2K4** — GlobalFiler™ Express  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**F3DUQJ** — GlobalFiler™  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**FF6XUK** — GlobalFiler™  (STRmix)  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**FQL36F** — GlobalFiler™  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**FXH4YE** — PowerPlex® Fusion 5C  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**FZRUNH** — PowerPlex® Fusion  (Item 1)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

**GCG946** — GlobalFiler™ (STRmix) — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**GLN8GD** — GlobalFiler™ (STRmix) — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**GMRFGR** — PowerPlex® Fusion 5C — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**GRCRKT** — GlobalFiler™ — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**GV83QV** — GlobalFiler™ — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**GVB6LK** — Investigator® 24plex GO! — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**HMB2VT** — GlobalFiler™ (STRmix) — Item 1

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | -- | | | -- | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

**HXXDG2**  GlobalFiler™ Express

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | No results | | | No results | |

**HYLW7R**  PowerPlex® Fusion 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**HZ4ZU6**  GlobalFiler™ Express

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**J8ZC8E**  PowerPlex® Fusion 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**JEGQ8X**  GlobalFiler™ Express

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | no results | | | no results | |

**JFVK3J**  Investigator® 24plex GO!

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**JPJJPH**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 1 - STR Results

**JTZ969** — PowerPlex® 5C  (BulletProof)

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,[19] | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,[13] | 9,11 |
| 16,18 | [14] | 31,32.2 | 16,[18] | X,X | [12] |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**K3K4GT** — PowerPlex® Fusion

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**KFZAAU** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NM | | | NM | |

**KJQYY8** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**KNUHVL** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NM | | | NM | |

**KP9CVL** — PowerPlex® 5C

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**KTUGNC** — PowerPlex® Fusion 5C

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 1 - STR Results

**L63HKU — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**LJJJ6D — GlobalFiler™ (STRmix) — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**LU22Z7 — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**M4LEEL — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**M6XWUK — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**MFDNTN — PowerPlex® 5C — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**MFYW3R — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

## TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 1 - STR Results

**MGDF33 — GlobalFiler™ Express, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**MMFKW8 — GlobalFiler™, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**MQF44T — GlobalFiler™ (STRmix), Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**MVV4CZ — PowerPlex® Fusion, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | NR | | | | |

**N4HUVK — PowerPlex® Fusion 5C, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**N9XLD6 — GlobalFiler™, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**NBFE48 — GlobalFiler™ Express, Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

**NHZHBA — GlobalFiler™ Express**

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |

**NQFHVJ — GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**NT34HE — PowerPlex® Fusion**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**NW3B8J — GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**P3NMFK — GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**P7KCWR — GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |

**PLDLGJ — PowerPlex® Fusion 5C**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **QDLB2U** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **QDYKXT** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |
| **QRF6Y9** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **QWU98P** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **QX6HAG** | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **R22EEP** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NM | | | NM | |
| **R474JJ** | GlobalFiler™ Express | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656**  D7S820  D18S51  FGA  vWA | **D2S1338**  D8S1179  D19S433  Penta D  DYS391 | **D2S441**  D10S1248  D21S11  Penta E  DYS570 | **D3S1358**  D12S391  D22S1045  SE33  DYS576 | **D5S818**  D13S317  Amelogenin  TH01  Y Indel | **D6S1043**  D16S539  CSF1PO  TPOX |

### Item 1 - STR Results

**RMWHVM** — PowerPlex® Fusion 5C, Verifiler+

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | 11,18 |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**RT9QLX** — GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**RUKK4J** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**RWQ397** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**RXJYQ9** — GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**RXJZDR** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**TATVB3** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | N/A |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | N/A | N/A | 18,28.2 | 7,9 | 9,11 |
| 14,15 | N/A | N/A | N/A | N/A | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| TLN398 | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| TQEL4A | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| TX2K37 | GlobalFiler™ Express | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |
| TZNFFB | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| U3BPCB | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| U3Q2UF | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| U4LRXA | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **U7QMVD** | PowerPlex® Fusion 5C | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **UCVYWX** | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **ULKA3R** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **UNR6PV** | GlobalFiler™  (STRmix) | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **UVQNRR** | GlobalFiler™ | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | NR | | | NR | |
| **UWKC92** | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |
| **VFT2Y4** | PowerPlex® Fusion | | | | | |
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| **1** | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| Item | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 1 - STR Results

**VG42XJ — GlobalFiler™ (STRmix) — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**VGKNB3 — GlobalFiler™ Express — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | No Results | | | No Results | |

**VGZUTD — PowerPlex® Fusion 5C — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**VMU7WF — GlobalFiler™ (STRmix) — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | -- | | | -- | |

**VV8Z8B — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**VXV6VV — PowerPlex® Fusion 6C — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | 9,12 | 13,13 | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**W7KA32 — NGM SElect — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | | |
| | 13,17 | 12,14 | 15,20 | | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | |
| 22,25 | | | 18,28.2 | 7,9 | |
| 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits | (Probabilistic Genotyping Software) | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 1 - STR Results

**WEVGZQ — PowerPlex® Fusion**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | NR | | | | |

**WJ9EAY — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**XHBXGE — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**XPRAW2 — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | N/A |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | N/A | N/A | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | N/A | N/A | N/A | N/A | |

**XPTW3Z — Identifiler®**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | | 18,23 | | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | | | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,31.2 | | X,X | 9,12 |
| | 22,25 | | | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**XWQU2G — GlobalFiler™**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| | 14,15 | | | | | |

**Y7QLEB — PowerPlex® Fusion 5C**

| Item | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 1 | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| | 22,25 | 9,12 | 13,13 | | 7,9 | 9,11 |
| | 14,15 | - | - | - | - | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 1 - STR Results

**YKRKTY — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**YMGU2E — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**YVBYUF — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**YZMKEG — GlobalFiler™ — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NM | | | NM | |

**Z7P7NV — GlobalFiler™ Express — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | NR | | | NR | |

**Z7PZH9 — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

**ZJVW2A — PowerPlex® Fusion — Item 1**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| 14,15 | | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 1 - STR Results

**ZTY77E    PowerPlex® Fusion**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | | | | | |

**ZXT3V6    PowerPlex® Fusion**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 1 | 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| | 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| | 16,18 | 14 | 31,32.2 | 16,18 | X | 9,12 |
| | 22,25 | 9,12 | 13 | | 7,9 | 9,11 |
| | 14,15 | NR | | | | |

## TABLE 1

| WebCode | Amplification Kits | (Probabilistic Genotyping Software) | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **23PEJV** | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **28WCKM** | GlobalFiler™  (STRmix) | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **2TDMM7** | GlobalFiler™  (STRmix) | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **34CHJF** | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **3HAURJ** | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| **3RKGXL** | PowerPlex® Fusion 5C | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| **3UPLFT** | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**46JPEZ** GlobalFiler™ PCR Amplification Kit

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**4DT64B** PowerPlex® 5C

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | -- |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | -- | 9 | 11,12 |
| | 15,17 | 11 | -- | -- | -- | |

**4JYFZ2** GlobalFiler™

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**4KT9VK** GlobalFiler™ (STRmix)

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | -- |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | -- | -- | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | -- | -- | 2 | |

**4PNFE3** GlobalFiler™

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**63RK2Z** PowerPlex® Fusion 5c

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**6ATX4N** GlobalFiler™

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| **6MFMWA** | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | - |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | - | - | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11,11 | - | - | 2 | |
| **6QHDGF** | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| **72E7EQ** | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **74ZNAQ** | GlobalFiler™ Express | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **7JX86M** | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| **7KACVC** | GlobalFiler™ Express | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **7LXZVJ** | GlobalFiler™ (GeneMapper ID-X 1.6) | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **7PZENV** GlobalFiler™ | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **7VTBGT** GlobalFiler™ | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **7Z2CDQ** GlobalFiler™ Express | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **7ZYPT7** PowerPlex® Fusion 6C | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | 2.2,11 | 7,11 | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | 22 | 20 | | |
| **83MBHL** Investigator® 24plex | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | | |
| **86CC72** GlobalFiler™ | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **8R7ZWU** PowerPlex® Fusion | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 9232PY | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| 9F7P2R | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| 9HVRQM | GlobalFiler™ Express | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| 9JZL4X | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| 9NLNF4 | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| A8B6FQ | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| AKDVU4 | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**AKJFZE — PowerPlex® Fusion**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**APU2X6 — GlobalFiler™**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**ATU4PR — GlobalFiler™**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**AU6LTC — PowerPlex® Fusion**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**AVHPBM — PowerPlex® Fusion**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**B8ZKTE — GlobalFiler™ Express**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**BEQAMG — PowerPlex® Fusion 5C**

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** / **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** / **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** / **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** / **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** |

### Item 2 - STR Results

**BZ7EZD — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**BZ8MDJ — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**BZKUE2 — PowerPlex® Fusion 6C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | 22 | 20 | | |

**BZLGZL — GlobalFiler™ Express — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**CBW3FP — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**CHJQGM — GlobalFiler™  (STRmix) — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**CKNC9T — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**CNNVH2** — PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**D2Q74E** — Investigator® 24plex

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**D9RMRK** — GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | NA |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | NA | NA | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | NA | NA | 2 | |

Item: 2

**DR3PFQ** — PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**DY9LJK** — PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**ERXHXV** — GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**F2HV6Z** — GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**F2Y2K4**   GlobalFiler™ Express

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**F3DUQJ**   GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**FF6XUK**   GlobalFiler™   (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**FQL36F**   GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

**FXH4YE**   PowerPlex® Fusion 5C

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**FZRUNH**   PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

**GCG946**   GlobalFiler™   (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**GLN8GD**  GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**GMRFGR**  PowerPlex® Fusion 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**GRCRKT**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**GV83QV**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**GVB6LK**  Investigator® 24plex GO!

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**HMB2VT**  GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**HXXDG2**  GlobalFiler™ Express

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**HYLW7R — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| 15,17 | 11 | | | | |

**HZ4ZU6 — GlobalFiler™ Express — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**J8ZC8E — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**JEGQ8X — GlobalFiler™ Express — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**JFVK3J — Investigator® 24plex GO! — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**JPJJPH — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**JTZ969 — PowerPlex® 5C (BulletProof) — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| Item | | | | | | |
|---|---|---|---|---|---|---|
| K3K4GT | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| KFZAAU | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| KJQYY8 | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| KNUHVL | GlobalFiler™ | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| KP9CVL | PowerPlex® 5C | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| KTUGNC | PowerPlex® Fusion 5C | | | | | |
| | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| | 15,17 | 11 | | | | |
| L63HKU | PowerPlex® Fusion | | | | | |
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**LJJJ6D — GlobalFiler™ (STRmix) — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 |  |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 |  |  | 16,19 | 9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

**LU22Z7 — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 |  |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 |  |  | 16,19 | 9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

**M4LEEL — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 |  |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 |  |  | 16,19 | 9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

**M6XWUK — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 |  |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 |  |  | 16,19 | 9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

**MFDNTN — PowerPlex® 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 |  |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 |  | 9,9 | 11,12 |
| 15,17 | 11 |  |  |  |  |

**MFYW3R — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 |  |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 |  |  | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

**MGDF33 — GlobalFiler™ Express — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 |  |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 |  |  | 16,19 | 9 | 11,12 |
| 15,17 | 11 |  |  | 2 |  |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **MMFKW8** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **MQF44T** GlobalFiler™ (STRmix) | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **MVV4CZ** PowerPlex® Fusion | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |
| **N4HUVK** PowerPlex® Fusion 5C | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| | 15,17 | 11 | | | | |
| **N9XLD6** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **NBFE48** GlobalFiler™ Express | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **NHZHBA** GlobalFiler™ Express | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**NQFHVJ — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**NT34HE — PowerPlex® Fusion — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**NW3B8J — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**P3NMFK — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**P7KCWR — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**PLDLGJ — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| 15,17 | 11 | | | | |

**QDLB2U — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**QDYKXT — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**QRF6Y9 — GlobalFiler™ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**QWU98P — GlobalFiler™ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**QX6HAG — PowerPlex® Fusion — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**R22EEP — GlobalFiler™ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**R474JJ — GlobalFiler™ Express — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**RMWHVM — PowerPlex® Fusion 5C, Verifiler+ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | 12 |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** / **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** / **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** / **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** / **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** |

### Item 2 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **RT9QLX** GlobalFiler™ (STRmix) | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **RUKK4J** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **RWQ397** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **RXJYQ9** GlobalFiler™ (STRmix) | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **RXJZDR** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | | | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | | | 2 | |
| **TATVB3** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | N/A |
| | 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23,23 | N/A | N/A | 16,19 | 9,9 | 11,12 |
| | 15,17 | 11 | N/A | N/A | 2 | |
| **TLN398** GlobalFiler™ | | | | | | |
| 2 | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | | | 16,19 | 9 | 11,12 |
| | 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**TQEL4A** — PowerPlex® Fusion — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**TX2K37** — GlobalFiler™ Express — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**TZNFFB** — GlobalFiler™ — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**U3BPCB** — GlobalFiler™ — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**U3Q2UF** — GlobalFiler™ — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**U4LRXA** — GlobalFiler™ — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**U7QMVD** — PowerPlex® Fusion 5C — Item 2

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**UCVYWX — PowerPlex® Fusion — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**ULKA3R — GlobalFiler™ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**UNR6PV — GlobalFiler™ (STRmix) — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**UVQNRR — GlobalFiler™ — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**UWKC92 — PowerPlex® Fusion — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**VFT2Y4 — PowerPlex® Fusion — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

**VG42XJ — GlobalFiler™ (STRmix) — Item 2**

| | | | | | |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

**VGKNB3 — GlobalFiler™ Express — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**VGZUTD — PowerPlex® Fusion 5C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| 15,17 | 11 | | | | |

**VMU7WF — GlobalFiler™ (STRmix) — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**VV8Z8B — GlobalFiler™ — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**VXV6VV — PowerPlex® 6C — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | 22 | 20 | | |

**W7KA32 — NGM SElect — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | | |
| | 12,13 | 14,14 | 18,20 | | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | |
| 23,23 | | | 16,19 | 9,9 | |
| 15,17 | | | | | |

**WEVGZQ — PowerPlex® Fusion — Item 2**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656**<br>**D7S820**<br>**D18S51**<br>**FGA**<br>**vWA** | **D2S1338**<br>**D8S1179**<br>**D19S433**<br>**Penta D**<br>**DYS391** | **D2S441**<br>**D10S1248**<br>**D21S11**<br>**Penta E**<br>**DYS570** | **D3S1358**<br>**D12S391**<br>**D22S1045**<br>**SE33**<br>**DYS576** | **D5S818**<br>**D13S317**<br>**Amelogenin**<br>**TH01**<br>**Y Indel** | **D6S1043**<br>**D16S539**<br>**CSF1PO**<br>**TPOX** |

## Item 2 - STR Results

**WJ9EAY — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**XHBXGE — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**XPRAW2 — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | N/A |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | N/A | N/A | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | N/A | N/A | 2 | |

**XPTW3Z — Identifiler® — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| | 17,22 | | 14,14 | 11,12 | |
| 8,10 | 12,13 | | | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | | X,Y | 11,12 |
| 23,23 | | | | 9,9 | 11,12 |
| 15,17 | | | | | |

**XWQU2G — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

**Y7QLEB — PowerPlex® Fusion 5C — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | 2.2,11 | 7,11 | | 9,9 | 11,12 |
| 15,17 | 11 | - | - | - | |

**YKRKTY — GlobalFiler™ — Item 2**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 2 - STR Results

**YMGU2E** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**YVBYUF** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**YZMKEG** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | | | 16,19 | 9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**Z7P7NV** — GlobalFiler™ Express

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14,14 | 14,14 | 11,12 | |
| 8,10 | 12,13 | 14,14 | 18,20 | 12,12 | 12,12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23,23 | | | 16,19 | 9,9 | 11,12 |
| 15,17 | 11 | | | 2 | |

Item: 2

**Z7PZH9** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**ZJVW2A** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

**ZTY77E** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| 15,17 | 11 | | | | |

Item: 2

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 2 - STR Results

| ZXT3V6 | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 16.3,17.3 | 17,22 | 14 | 14 | 11,12 | |
| 2 | 8,10 | 12,13 | 14 | 18,20 | 12 | 12 |
| | 12,16 | 13,14.2 | 31.2,32.2 | 15,16 | X,Y | 11,12 |
| | 23 | 2.2,11 | 7,11 | | 9 | 11,12 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 23PEJV | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | [7],9 | [9],11,12 |
| | 14,15,17 | 11 | | | 2 | |
| 28WCKM | GlobalFiler™ (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| 2TDMM7 | GlobalFiler™ (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| 34CHJF | GlobalFiler™ | | | | | |
| | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 3 | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |
| 3HAURJ | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| 3RKGXL | PowerPlex® Fusion 5C | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| 3UPLFT | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 3 - STR Results

**46JPEZ — 3 — GlobalFiler™ PCR Amplification Kit**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| 12,16,[18] | 13,[14],14.2 | [31],31.2,32.2 | 15,16,[18] | X,Y | [9],11,12 |
| [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| [14],15,17 | 11 | | | 2 | |

**4DT64B — 3 — PowerPlex® 5C**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | -- |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 11,12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | -- | 7,9 | 9,11,12 |
| 14,15,17 | 11 | -- | -- | -- | |

**4JYFZ2 — 3 — GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**4PNFE3 — 3 — GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**63RK2Z — 3 — PowerPlex® Fusion 5c**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**6ATX4N — 3 — GlobalFiler™ (STRmix)**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 14,15,16,17,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**6MFMWA — 3 — GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | - |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | - | - | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | - | - | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| | | | | | |
|---|---|---|---|---|---|
| 6QHDGF | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| | | | | | | |
| 72E7EQ | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | [7],9 | [9],11,12 |
| | 14,15,17 | 11 | | | 2 | |
| | | | | | | |
| 74ZNAQ | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| | | | | | | |
| 7JX86M | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| | | | | | | |
| 7KACVC | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| | | | | | | |
| 7LXZVJ | GlobalFiler™  (GeneMapper ID-X 1.6) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| | | | | | | |
| 7PZENV | GlobalFiler™  (STRmix) | | | | | |
| | [14,16],16.3,17.3 | 17,18,22,[23] | [11,11.3],14 | 14,[15,19] | 11,12,[13,14] | |
| 3 | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9,11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **7VTBGT** | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | [7],9 | [9],11,12 |
| | 14,15,17 | 11 | | | 2 | |
| **7Z2CDQ** | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| **7ZYPT7** | PowerPlex® Fusion 6C  (CaseSolver, LRMixStudio, LabRetriever, DNAView, EFM) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,17,18 | X,Y | 9,11,12 |
| | 22,23,24,25 | 2.2,9,11,12 | 7,11,13 | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | 22 | 20 | | |
| **83MBHL** | Investigator® 24plex  (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| **86CC72** | GlobalFiler™  (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| **8R7ZWU** | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| **9232PY** | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| **3** | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| Item | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 3 - STR Results

**9F7P2R** — PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**9HVRQM** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**9JZL4X** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**9NLNF4** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**A8B6FQ** — GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 11,12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,15,16,18 | 13,14,14.2,Q | 31,31.2,32.2 | 15,16,17,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9,Q | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**AKDVU4** — GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**AKJFZE** — PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**APU2X6** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**ATU4PR** — GlobalFiler™

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**AU6LTC** — PowerPlex® Fusion

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**AVHPBM** — PowerPlex® Fusion

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**B8ZKTE** — GlobalFiler™ (STRmix)

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**BEQAMG** — PowerPlex® Fusion 5C

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**BZ7EZD** — PowerPlex® Fusion 5C

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 3 - STR Results

**BZ8MDJ    PowerPlex® Fusion 5C**

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**BZKUE2    PowerPlex® Fusion 6C**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | 22 | 20 | | |

**BZLGZL    GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**CBW3FP    GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**CHJQGM    GlobalFiler™  (STRmix)**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 14,15,16,17,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**CKNC9T    GlobalFiler™**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**CNNVH2    PowerPlex® Fusion  (TrueAllele)**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**D2Q74E — Investigator® 24plex (STRMix)** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**D9RMRK — GlobalFiler™** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | NA |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| 22,23,25 | NA | NA | 16,18,19,28.2 | [7],9 | [9],11,12 |
| 14,15,17 | 11 | NA | NA | 2 | |

**DR3PFQ — PowerPlex® Fusion** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**DY9LJK — PowerPlex® Fusion** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**ERXHXV — GlobalFiler™** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**F2HV6Z — GlobalFiler™** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**F2Y2K4 — GlobalFiler™ (STRmix)** — Item 3

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**F3DUQJ**　　GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | [7],9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**FF6XUK**　　GlobalFiler™ (STRmix)

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**FQL36F**　　GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | [7],9 | [9],11,12 |
| 14,15,17 | 11 | | | 2 | |

**FXH4YE**　　PowerPlex® Fusion 5C

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**FZRUNH**　　PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**GCG946**　　GlobalFiler™ (STRmix)

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**GLN8GD**　　GlobalFiler™ (STRmix)

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**GMRFGR — PowerPlex® Fusion 5C**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**GRCRKT — GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**GV83QV — GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 11,14,16,17.3 | 18,23,24 | 11,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**GVB6LK — Investigator® 24plex QS**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**HMB2VT — GlobalFiler™ (STRmix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**HXXDG2 — GlobalFiler™ (STRmix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**HYLW7R — PowerPlex® Fusion 5C**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**HZ4ZU6  GlobalFiler™ (STRmix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**J8ZC8E  PowerPlex® Fusion 5C (STRmix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**JEGQ8X  GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**JFVK3J  Investigator® 24plex QS**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**JPJJPH  GlobalFiler™ (STR Mix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 3 | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |

**JTZ969  PowerPlex® 5C (BulletProof)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 3 | 8,9,10,11 | 12,13,17 | [12],14 | 15,18,20 | 12,[13] | [9],[11],12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | [9],11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | [7],9 | 9,11,12 |
| | [14],15,17 | 11 | | | | |

**K3K4GT  PowerPlex® Fusion**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**KFZAAU — GlobalFiler™**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**KJQYY8 — GlobalFiler™ (STRmix)**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**KNUHVL — GlobalFiler™**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**KP9CVL — PowerPlex® 5C**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**KTUGNC — PowerPlex® Fusion 5C**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**L63HKU — PowerPlex® Fusion (TrueAllele)**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**LJJJ6D — GlobalFiler™ (STRmix)**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**LU22Z7**  GlobalFiler™ (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**M4LEEL**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**M6XWUK**  GlobalFiler™ (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**MFDNTN**  PowerPlex® 5C

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**MFYW3R**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**MGDF33**  GlobalFiler™ (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**MMFKW8**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| Item / WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | **D1S1656** / **D7S820** / **D18S51** / **FGA** / **vWA** | **D2S1338** / **D8S1179** / **D19S433** / **Penta D** / **DYS391** | **D2S441** / **D10S1248** / **D21S11** / **Penta E** / **DYS570** | **D3S1358** / **D12S391** / **D22S1045** / **SE33** / **DYS576** | **D5S818** / **D13S317** / **Amelogenin** / **TH01** / **Y Indel** | **D6S1043** / **D16S539** / **CSF1PO** / **TPOX** |

### Item 3 - STR Results

**MQF44T — GlobalFiler™ (STRmix) — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**MVV4CZ — PowerPlex® Fusion — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**N4HUVK — PowerPlex® Fusion 5C — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**N9XLD6 — GlobalFiler™ (STRmix) — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,15,16,18,Q | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12,Q |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12,Q |
| 14,15,17 | 11 | | | 2 | |

**NBFE48 — GlobalFiler™ — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**NHZHBA — GlobalFiler™ — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**NQFHVJ — GlobalFiler™ — Item 3**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 3 - STR Results

**NT34HE    PowerPlex® Fusion**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**NW3B8J    GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**P3NMFK    GlobalFiler™  (STRmix)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**P7KCWR    GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |

**PLDLGJ    PowerPlex® Fusion 5C**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

**QDLB2U    GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

**QDYKXT    GlobalFiler™**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 3 | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 3 - STR Results

**QRF6Y9  GlobalFiler™ (STRMix)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**QWU98P  GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**QX6HAG  PowerPlex® Fusion**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**R22EEP  GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**R474JJ  GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**RMWHVM  PowerPlex® Fusion 5C, Verifiler+**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | 11,12,18 |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**RUKK4J  GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,Y | [9],11,12 |
| [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| [14],15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| Item / WebCode | | | | | | |
|---|---|---|---|---|---|---|
| RWQ397 | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | [9],11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | [7],9 | [9],11,12 |
| | 14,15,17 | 11 | | | 2 | |
| RXJZDR | GlobalFiler™ | | | | | |
| | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 3 | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [11],12 |
| | 12,16,[18] | 13,14,14.2 | 31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | | | 2 | |
| TATVB3 | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | N/A |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| | 22,23,25 | N/A | N/A | 16,18,19,28.2 | [7],9 | [9],11,12 |
| | 14,15,17 | 11 | N/A | N/A | 2 | |
| TLN398 | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| TQEL4A | PowerPlex® Fusion | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |
| TX2K37 | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| TZNFFB | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| U3BPCB | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| U3Q2UF | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| U4LRXA | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| U7QMVD | PowerPlex® Fusion 5C  (TrueAllele) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

| UCVYWX | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

| ULKA3R | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| UNR6PV | GlobalFiler™  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 3 - STR Results

| UVQNRR | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | |
| 3 | 8,[9],10,[11] | [12],13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | [9],11,12 |
| | [22],23,[25] | | | 16,[18],19,[28.2] | [7],9 | [9],11,[12] |
| | [14],15,17 | 11 | | | 2 | |

| UWKC92 | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

| VFT2Y4 | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

| VG42XJ | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| VGKNB3 | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| VGZUTD | PowerPlex® Fusion 5C (STRmix v 2.7.0) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | | |

| VMU7WF | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

**VV8Z8B  GlobalFiler™ (STRmix)**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

(Item 3)

**VXV6VV  PowerPlex® Fusion 5C**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | [12],14 | 15,18,20 | 12,[13] | [9],[11],12 |
| 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,[Y] | 9,11,12 |
| [22],23,[25] | 2.2,9,11,12 | 7,11,13 | | [7],9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

(Item 3)

**W7KA32  NGM SElect**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | | |
| | 12,13,17 | 12,14 | 15,18,20 | | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 29,31,31.2,32.2 | 15,16,18 | X,Y | |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | |
| 14,15,17 | | | | | |

(Item 3)

**WEVGZQ  PowerPlex® Fusion**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

(Item 3)

**WJ9EAY  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 12,14 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

(Item 3)

**XHBXGE  GlobalFiler™ (STRmix)**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

(Item 3)

**XPRAW2  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | [11],11.3,14 | 14,15,19 | 11,12,13,14 | N/A |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | [9],11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,[18] | X,Y | 9,11,12 |
| 22,23,[25] | N/A | N/A | 16,18,19,28.2 | [7],9 | 9,11,12 |
| 14,15,17 | 11 | N/A | N/A | 2 | |

(Item 3)

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| XPTW3Z | PowerPlex® | | | | | |
| | [14],[16],16.3,17.3 | 17,[18],22,[23] | [11],[11.3],14 | 14,[15],[19] | 11,12,[13],[14] | [11],12,[18] |
| 3 | 8,[9],10,[11] | 12,13,[17] | [12],14 | [15],18,20 | 12,[13] | [9],[11],12 |
| | 12,16,[18] | 13,14,14.2 | [31],31.2,32.2 | 15,16,[18] | X,Y | [9],11,12 |
| | [22],23,[25] | 2.2,[9],11,[12] | 7,11,13 | 16,[18],19,[28.2] | [7],9 | [9],11,12 |
| | [14],15,17 | 11 | 22 | 10 | 2 | |
| YWQU2G | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| Y7QLEB | PowerPlex® Fusion 5C | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | - | - | - | |
| YKRKTY | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| YMGU2E | GlobalFiler™ (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| YVBYUF | GlobalFiler™ (STRmix) | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |
| YZMKEG | GlobalFiler™ | | | | | |
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3 | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 3 - STR Results

**Z7P7NV** — GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | 2 | |

**Z7PZH9** — PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**ZJVW2A** — PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**ZTY77E** — PowerPlex® Fusion  (TrueAllele)

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

**ZXT3V6** — PowerPlex® Fusion  (TrueAllele)

| | | | | | |
|---|---|---|---|---|---|
| 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| 22,23,25 | 2.2,9,11,12 | 7,11,13 | | 7,9 | 9,11,12 |
| 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3e - STR Results

| 4KT9VK | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | -- |
| 3e | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | -- | -- | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | -- | -- | 2 | |

| RT9QLX | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3e | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12 |
| | 14,15,17 | 11 | | | 2 | |

| RXJYQ9 | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 14,16,16.3,17.3 | 17,18,22,23 | 11,11.3,14 | 14,15,19 | 11,12,13,14 | |
| 3e | 8,9,10,11 | 12,13,17 | 12,14 | 15,18,20 | 12,13 | 9,11,12 |
| | 12,16,18 | 13,14,14.2 | 31,31.2,32.2 | 15,16,18 | X,Y | 9,11,12 |
| | 22,23,25 | | | 16,18,19,28.2 | 7,9 | 9,11,12,Q |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 3sp - STR Results

4KT9VK          GlobalFiler™  (STRmix)

3sp

RT9QLX          GlobalFiler™  (STRmix)

3sp

RXJYQ9          GlobalFiler™  (STRmix)

3sp

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4 - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 46JPEZ | GlobalFiler™ PCR Amplification Kit | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4 | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| | | | | | | |
| 7ZYPT7 | PowerPlex® Fusion 6C (mRMP by Familias3) | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4 | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | 16 | 18 | | |
| | | | | | | |
| RMWHVM | PowerPlex® Fusion 5C, Verifiler+ | | | | | |
| | 11,14,16,17.3 | 18,24 | 11,11.3,12,14 | 15,19 | 12,14 | 11,14,18 |
| 4 | 9,12 | 14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| | | | | | | |
| WJ9EAY | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4 | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 4e - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 23PEJV | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |
| 28WCKM | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| 2TDMM7 | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| 34CHJF | GlobalFiler™ | | | | | |
| | 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 4e | 9,[11],[12] | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,[Y] | [9],10,[12],13 |
| | 22,23,[25] | | | 16,18,27.2,[28.2] | 7,[9],[9.3] | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |
| 3HAURJ | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| 3RKGXL | PowerPlex® Fusion 5C | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| 3UPLFT | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**46JPEZ**  GlobalFiler™ PCR Amplification Kit

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**4DT64B**  PowerPlex® 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | -- |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | -- | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | -- | -- | -- | |

**4JYFZ2**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**4KT9VK**  GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,12,14 | 15,19 | 12,13,14 | -- |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | -- | -- | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | -- | -- | 2 | |

**4PNFE3**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**63RK2Z**  PowerPlex® Fusion 5c

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**6ATX4N**  GlobalFiler™  (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 6MFMWA | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | - |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | - | - | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | - | - | 2 | |
| 6QHDGF | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| 72E7EQ | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |
| 74ZNAQ | GlobalFiler™ | | | | | |
| | 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| 4e | 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |
| 7JX86M | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| 7KACVC | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| 7LXZVJ | GlobalFiler™  (GeneMapper ID-X 1.6) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4e - STR Results

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| **7PZENV** | GlobalFiler™ | | | | | |
| | 11,[14,16],17.3 | [18,23],24 | [11,11.3],12,14 | 15,19 | 12,[13,14] | |
| **4e** | 9,[11,12] | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11,12] |
| | [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,[Y] | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,[17] | 11 | | | 2 | |
| **7VTBGT** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |
| **7Z2CDQ** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| **83MBHL** | Investigator® 24plex  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| **86CC72** | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| **8R7ZWU** | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| **9232PY** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| **4e** | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**9F7P2R** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**9HVRQM** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**9JZL4X** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**9NLNF4** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**A8B6FQ** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 10,11 | | | 2 | |

**AKDVU4** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**AKJFZE** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**APU2X6**   GlobalFiler™

| | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**ATU4PR**   GlobalFiler™

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**AU6LTC**   PowerPlex® Fusion

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**AVHPBM**   PowerPlex® Fusion

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**B8ZKTE**   GlobalFiler™ (STRmix)

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**BEQAMG**   PowerPlex® Fusion 5C

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**BZ7EZD**   PowerPlex® Fusion 5C

| | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**BZ8MDJ** — PowerPlex® Fusion 5C — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**BZKUE2** — PowerPlex® Fusion 6C — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | 16 | 18 | | |

**BZLGZL** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | 2 | |

**CBW3FP** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**CHJQGM** — GlobalFiler™  (STRmix) — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**CKNC9T** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**CNNVH2** — PowerPlex® Fusion — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| **D2Q74E** | Investigator® 24plex  (STRMix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| **D9RMRK** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | NA |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,15 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | NA | NA | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | NA | NA | 2 | |
| **DR3PFQ** | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| **DY9LJK** | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,18,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |
| **ERXHXV** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| **F2HV6Z** | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |
| **F2Y2K4** | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| F3DUQJ | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,[14] | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,[25] | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| FF6XUK | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| FQL36F | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| FXH4YE | PowerPlex® Fusion 5C | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| FZRUNH | PowerPlex® Fusion | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| GCG946 | GlobalFiler™  (STRmix) | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| GLN8GD | GlobalFiler™ | | | | | |
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 4e | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**GMRFGR** — PowerPlex® Fusion 5C — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**GRCRKT** — GlobalFiler™ — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**GV83QV** — GlobalFiler™ — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 14,16 | 18,23 | 11,11.3 | 15,19 | 13,14 | |
| 9,11 | 13,17 | 12,14 | 15,20 | 12,13 | 9,11 |
| 16,18 | 14,14 | 31,32.2 | 16,18 | X,X | 9,12 |
| 22,25 | | | 18,28.2 | 7,9 | 9,11 |
| 14,15 | | | | | |

**GVB6LK** — Investigator® 24plex QS — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**HMB2VT** — GlobalFiler™ (STRmix) — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**HXXDG2** — GlobalFiler™ (STRmix) — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**HYLW7R** — PowerPlex® Fusion 5C — 4e

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| Item | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 4e - STR Results

**HZ4ZU6**  GlobalFiler™  (STRmix)

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

4e

**J8ZC8E**  PowerPlex® Fusion 5C  (STRmix)

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | 11,12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,13 | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | 9,10,12,13 |
| 22,23,[25] | [9],12,13 | 7,12,13 | | 7,[9],9.3 | 8,[9],11 |
| 14,15,17 | 11 | | | | |

4e

**JEGQ8X**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

4e

**JFVK3J**  Investigator® 24plex QS

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

4e

**JPJJPH**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | 11,[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | [29],[31],32.2 | 16,17,[18] | X,[Y] | 9,10,[12],13 |
| 22,[23],[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | [8],[9],11 |
| [14],15,[17] | 11 | | | 2 | |

4e

**JTZ969**  PowerPlex® 5C  (BulletProof)

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | [18],[23],24 | 11,11.3,12,14 | 15,19 | 12,[13],[14] | |
| 9,11,12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,[14] | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,[9],9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

4e

**K3K4GT**  PowerPlex® Fusion  (TrueAllele)

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | | |

4e

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| Item | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4e - STR Results

**KFZAAU** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**KJQYY8** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**KNUHVL** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**KP9CVL** — PowerPlex® 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**KTUGNC** — PowerPlex® Fusion 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**L63HKU** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**LJJJ6D** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**LU22Z7** — GlobalFiler™ (STRmix)

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**M4LEEL** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**M6XWUK** — GlobalFiler™ (STRmix)

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**MFDNTN** — PowerPlex® 5C

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**MFYW3R** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.8 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**MGDF33** — GlobalFiler™ (STRmix)

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**MMFKW8** — GlobalFiler™

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**MQF44T** — GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**MVV4CZ** — PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**N4HUVK** — PowerPlex® Fusion 5C

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**N9XLD6** — GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**NBFE48** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| | 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

**NHZHBA** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| | 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

**NQFHVJ** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits | (Probabilistic Genotyping Software) | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4e - STR Results

**NT34HE  PowerPlex® Fusion**

| D1S1656 / etc. | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**NW3B8J  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**P3NMFK  GlobalFiler™  (STRmix)**

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**P7KCWR  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],16,17.3 | [18],[23],24 | 11,11.3,12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],[12] | [13],14,[17] | [12],14 | 15,19.3,20 | 11,12,[13] | 9,10,11,12 |
| [16],17,18 | 13,14 | 29,[31],32.2 | 16,[17],[18] | X,[Y] | 9,10,12,13 |
| 22,23,[25] | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| [14],15,[17] | 11 | | | 2 | |

**PLDLGJ  PowerPlex® Fusion 5C**

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**QDLB2U  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**QDYKXT  GlobalFiler™**

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | [18],[23],24 | 11,[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],[12] | [13],14,[17] | [12],14 | [15],[19.3],20 | 11,12,[13] | 9,10,11,12 |
| [16],[17],18 | 13,14 | 29,31,32.2 | 16,17,[18] | X,[Y] | 9,10,12,13 |
| 22,[23],[25] | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**QRF6Y9** — GlobalFiler™ (STRmix) — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**QWU98P** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**QX6HAG** — PowerPlex® Fusion (True Allele) — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,[14,16],17.3 | [18,23],24 | [11],12,14 | 15,19 | 12,[13,14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | | |

**R22EEP** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**R474JJ** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24,24 | [11],12,14 | 15,19 | 12,12,[13],[14] | |
| 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| 17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| 15,17 | 11 | | | 2 | |

**RT9QLX** — GlobalFiler™ (STRmix) — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**RUKK4J** — GlobalFiler™ — 4e

| | | | | | |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 4e - STR Results

**RWQ397 — GlobalFiler™ (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | | | 2 | |

**RXJYQ9 — GlobalFiler™ (STRmix) (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,18,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,13,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 12,13,14 | 28,29,31,32.2 | 15,16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11,Q |
| | 14,15,17 | 11 | | | 2 | |

**RXJZDR — GlobalFiler™ (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,[14],[16],[17.3] | [18],[23],24 | [11],[11.3],12,[14] | 15,19 | 12,[13],[14] | |
| | 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,[23],[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

**TATVB3 — GlobalFiler™ (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,14,16,17.3 | [18],23,24 | [11],[11.3],12,14 | 15,19 | 12,13,14 | N/A |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | N/A | N/A | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| | 14,15,17 | 11 | N/A | N/A | 2 | |

**TLN398 — GlobalFiler™ (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**TQEL4A — PowerPlex® Fusion (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**TX2K37 — GlobalFiler™ (4e)**

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| | 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| | 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**TZNFFB** — GlobalFiler™

| Item | D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**U3BPCB** — GlobalFiler™

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**U3Q2UF** — GlobalFiler™

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**U4LRXA** — GlobalFiler™

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**U7QMVD** — PowerPlex® Fusion 5C

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**UCVYWX** — PowerPlex® Fusion

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**ULKA3R** — GlobalFiler™

| Item | | | | | | |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**UNR6PV**   GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,18,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**UVQNRR**   GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,[14],[16],17.3 | [18],[23],24 | [11],11.3,12,14 | 15,19 | 12,[13],[14] | |
| | 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | 9,10,[11],12 |
| | [16],[17],18 | 13,[14] | [29],[31],32.2 | 16,[17],[18] | X,[Y] | [9],10,[12],[13] |
| | 22,[23],[25] | | | 16,[18],27.2,[28.2] | 7,[9],[9.3] | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

**UWKC92**   PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**VFT2Y4**   PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

**VG42XJ**   GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | 2 | |

**VGKNB3**   GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| | 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |

**VGZUTD**   PowerPlex® Fusion 5C

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4e | 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| | 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| | 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| | 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| | 14,15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**VMU7WF** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**VV8Z8B** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 6,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**VXV6VV** — PowerPlex® Fusion 5C

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | 11,11.3,12,14 | 15,19 | 12,[13],[14] | |
| 9,11,12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | 9,10,11,12 |
| [16],17,18 | 13,[14] | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,[25] | [9],12,13 | 7,12,13 | | 7,[9],9.3 | 8,[9],11 |
| 14,15,17 | 11 | | | | |

**W7KA32** — NGM SElect

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | | |
| | 13,14,17 | 12,14 | 15,19.3,20 | | 9,10,11,12,14 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | |
| 14,15,17 | | | | | |

**WEVGZQ** — PowerPlex® Fusion

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**XHBXGE** — GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**XPRAW2** — GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | [18],23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | N/A |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,[11],12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | N/A | N/A | 16,18,27.2,28.2 | 7,[9],9.3 | 8,[9],11 |
| 14,15,17 | 11 | N/A | N/A | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4e - STR Results

**XPTW3Z — PowerPlex®** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | 11,14,[18] |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | 16 | 18 | 2 | |

**XWQU2G — GlobalFiler™** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**Y7QLEB — PowerPlex® Fusion 5C** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | - | - | - | |

**YKRKTY — GlobalFiler™** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | [18],23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,[25] | | | 16,18,27.2,28.2 | 7,[9],9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**YMGU2E — GlobalFiler™ (STRmix)** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**YVBYUF — GlobalFiler™ (STRmix)** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,18,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

**YZMKEG — GlobalFiler™** (Item 4e)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | | | 16,18,27.2,28.2 | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 4e - STR Results

**Z7P7NV   GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24,24 | [11],[11.3],12,14 | 15,19 | 12,12,[13],[14] | |
| 9,[11],12 | [13],14,14,[17] | [12],14,14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | | | 16,[18],27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | 2 | |

**Z7PZH9   PowerPlex® Fusion  (True Allele)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**ZJVW2A   PowerPlex® Fusion  (TrueAllele)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,14,16,17.3 | 18,23,24 | 11,11.3,12,14 | 15,19 | 12,13,14 | |
| 9,11,12 | 13,14,17 | 12,14 | 15,19.3,20 | 11,12,13 | 9,10,11,12 |
| 16,17,18 | 13,14 | 29,31,32.2 | 16,17,18 | X,Y | 9,10,12,13 |
| 22,23,25 | 9,12,13 | 7,12,13 | | 7,9,9.3 | 8,9,11 |
| 14,15,17 | 11 | | | | |

**ZTY77E   PowerPlex® Fusion**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | | |

**ZXT3V6   PowerPlex® Fusion**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| [14],15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 23PEJV | GlobalFiler™ | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 28WCKM | GlobalFiler™ (STRmix) | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 2TDMM7 | GlobalFiler™ (STRmix) | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 34CHJF | GlobalFiler™ | | | | | |
| | 11,[14],[16],17.3 | [18],[23],24 | [11],[11.3],12,14 | 15,19 | 12,[13],[14] | |
| 4sp | 9,[11],12 | [13],14,[17] | [12],14 | [15],[19.3],20 | 11,12,[13] | 9,10,11,12 |
| | [16],17,18 | 13,[14] | 29,[31],32.2 | 16,[17],[18] | X,[Y] | [9],10,[12],13 |
| | 22,[23],[25] | | | 16,18,27.2,[28.2] | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | 2 | |
| 3HAURJ | PowerPlex® Fusion | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| 3RKGXL | PowerPlex® Fusion 5C | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| 3UPLFT | PowerPlex® Fusion | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| 46JPEZ | GlobalFiler™ PCR Amplification Kit | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 4DT64B | PowerPlex® 5C | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | -- |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | -- | 7,9.3 | 8,11 |
| | 15,17 | 11 | -- | -- | -- | |
| 4JYFZ2 | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 4KT9VK | GlobalFiler™  (STRmix) | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | -- |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | -- | -- | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | -- | -- | 2 | |
| 4PNFE3 | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| 63RK2Z | PowerPlex® Fusion 5c | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| 6ATX4N | GlobalFiler™  (STRmix) | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 4sp - STR Results

**6MFMWA**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | - |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | - | - | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | - | - | 2 | |

**6QHDGF**  PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**72E7EQ**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**74ZNAQ**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**7JX86M**  PowerPlex® Fusion

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**7KACVC**  GlobalFiler™

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**7LXZVJ**  GlobalFiler™  (GeneMapper ID-X 1.6)

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

| 7PZENV | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| 7VTBGT | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| 7Z2CDQ | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| 83MBHL | Investigator® 24plex  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| 86CC72 | GlobalFiler™  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| 8R7ZWU | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| 9232PY | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

**9F7P2R** — PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**9HVRQM** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**9JZL4X** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**9NLNF4** — GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**A8B6FQ** — GlobalFiler™ (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**AKDVU4** — GlobalFiler™ (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**AKJFZE** — PowerPlex® Fusion

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| APU2X6 | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| ATU4PR | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| AU6LTC | PowerPlex® Fusion | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| AVHPBM | PowerPlex® Fusion | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| B8ZKTE | GlobalFiler™ (STRmix) | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| BEQAMG | PowerPlex® Fusion 5C | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| BZ7EZD | PowerPlex® Fusion 5C | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

**BZ8MDJ**  PowerPlex® Fusion 5C

| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,12,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**BZKUE2**  PowerPlex® Fusion 6C

| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | 16 | 18 | | |

**BZLGZL**  GlobalFiler™

| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**CBW3FP**  GlobalFiler™

| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**CHJQGM**  GlobalFiler™  (STRmix)

| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**CKNC9T**  GlobalFiler™

| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
|---|---|---|---|---|---|---|
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**CNNVH2**  PowerPlex® Fusion

| 4sp | 11,17.3 | [23],24 | [11],12,14 | 15,19 | 12,[14] | |
|---|---|---|---|---|---|---|
| | 9,[11],12 | 14 | 14 | [15],19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,[12],13 |
| | 22,23,[25] | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

**D2Q74E — Investigator® 24plex  (STRMix)** — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**D9RMRK — GlobalFiler™** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | NA |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | NA | NA | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | NA | NA | 2 | |

**DR3PFQ — PowerPlex® Fusion** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**DY9LJK — PowerPlex® Fusion** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 12 | 14 | 14 | 19.3,20 | 11,12,13 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**ERXHXV — GlobalFiler™** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**F2HV6Z — GlobalFiler™** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**F2Y2K4 — GlobalFiler™  (STRmix)** — 4sp

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

| F3DUQJ | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| FF6XUK | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| FQL36F | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| FXH4YE | PowerPlex® Fusion 5C | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| FZRUNH | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| GCG946 | GlobalFiler™ (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| GLN8GD | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode / Item | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

## Item 4sp - STR Results

**GMRFGR** — PowerPlex® Fusion 5C

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**GRCRKT** — GlobalFiler™

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**GV83QV** — GlobalFiler™

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**GVB6LK** — Investigator® 24plex QS

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**HMB2VT** — GlobalFiler™ (STRmix)

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**HXXDG2** — GlobalFiler™ (STRmix)

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**HYLW7R** — PowerPlex® Fusion 5C

| 4sp | | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** / **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** / **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** / **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** / **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** |

## Item 4sp - STR Results

**HZ4ZU6 — GlobalFiler™ (STRmix)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**J8ZC8E — PowerPlex® Fusion 5C (STRmix)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**JEGQ8X — GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**JFVK3J — Investigator® 24plex QS**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**JPJJPH — GlobalFiler™**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**JTZ969 — PowerPlex® 5C (BulletProof)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**K3K4GT — PowerPlex® Fusion (TrueAllele)**

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | [18],[23],24 | [11],12,14 | 15,19 | 12,[13] | |
| 9,[11],12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,[14] | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12,[13] | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

| KFZAAU | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| KJQYY8 | GlobalFiler™  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| KNUHVL | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| KP9CVL | PowerPlex® 5C | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| KTUGNC | PowerPlex® Fusion 5C | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 12,12 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| L63HKU | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 11,[14,16],17.3 | [18,23],24 | [11],12,14 | 15,19 | 12,[13,14] | |
| 4sp | 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,[14] | 29,[31],32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | | |

| LJJJ6D | GlobalFiler™  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

**LU22Z7**  GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**M4LEEL**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**M6XWUK**  GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**MFDNTN**  PowerPlex® 5C

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**MFYW3R**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**MGDF33**  GlobalFiler™  (STRmix)

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**MMFKW8**  GlobalFiler™

| | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

**MQF44T**  GlobalFiler™ (STRmix)

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**MVV4CZ**  PowerPlex® Fusion

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**N4HUVK**  PowerPlex® Fusion 5C

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**N9XLD6**  GlobalFiler™ (STRmix)

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**NBFE48**  GlobalFiler™

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**NHZHBA**  GlobalFiler™

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**NQFHVJ**  GlobalFiler™

| 4sp | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

**NT34HE** — PowerPlex® Fusion — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**NW3B8J** — GlobalFiler™ — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**P3NMFK** — GlobalFiler™  (STRmix) — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**P7KCWR** — GlobalFiler™ — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**PLDLGJ** — PowerPlex® Fusion 5C — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**QDLB2U** — GlobalFiler™ — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**QDYKXT** — GlobalFiler™ — 4sp

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,[12],13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 4sp - STR Results

**QRF6Y9**  GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

**QWU98P**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

**QX6HAG**  PowerPlex® Fusion (True Allele)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | [23],24 | [11],12,14 | 15,19 | 12,[13,14] | |
| 9,12 | 14 | [12],14 | [15],19.3,20 | 11,12,[13] | 10,12 |
| 17,18 | 13 | 29,[31],32.2 | 16,17 | X,Y | 10,[12],13 |
| 22,23 | 12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| 15,17 | 11 | | | | |

4sp

**R22EEP**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

**R474JJ**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

**RT9QLX**  GlobalFiler™ (STRmix)

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

**RUKK4J**  GlobalFiler™

| D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

4sp

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

| RWQ397 | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| RXJYQ9 | GlobalFiler™  (STRmix) | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| RXJZDR | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| TATVB3 | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | N/A |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | N/A | N/A | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | N/A | N/A | 2 | |

| TLN398 | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

| TQEL4A | PowerPlex® Fusion | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

| TX2K37 | GlobalFiler™ | | | | | |
|---|---|---|---|---|---|---|
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode / Item | Amplification Kits  (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

### Item 4sp - STR Results

**TZNFFB — GlobalFiler™ — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**U3BPCB — GlobalFiler™ — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**U3Q2UF — GlobalFiler™ — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**U4LRXA — GlobalFiler™ — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**U7QMVD — PowerPlex® Fusion 5C — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | [11],12,14 | 15,19 | 12 | |
| 9,12 | 14,[17] | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12,[13] | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**UCVYWX — PowerPlex® Fusion — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**ULKA3R — GlobalFiler™ — 4sp**

| | | | | | |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

**UNR6PV — GlobalFiler™ (STRmix) — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**UVQNRR — GlobalFiler™ — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| [11],17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**UWKC92 — PowerPlex® Fusion — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**VFT2Y4 — PowerPlex® Fusion — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

**VG42XJ — GlobalFiler™ (STRmix) — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**VGKNB3 — GlobalFiler™ — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| 15,17 | 11 | | | 2 | |

**VGZUTD — PowerPlex® Fusion 5C — 4sp**

| D1S1656 / D7S820 / D18S51 / FGA / vWA | D2S1338 / D8S1179 / D19S433 / Penta D / DYS391 | D2S441 / D10S1248 / D21S11 / Penta E / DYS570 | D3S1358 / D12S391 / D22S1045 / SE33 / DYS576 | D5S818 / D13S317 / Amelogenin / TH01 / Y Indel | D6S1043 / D16S539 / CSF1PO / TPOX |
|---|---|---|---|---|---|
| 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| 15,17 | 11 | | | | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

**VMU7WF** — GlobalFiler™ (STRmix)

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**VV8Z8B** — GlobalFiler™ (STRmix)

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 11,12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,12,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

**VXV6VV** — PowerPlex® Fusion 5C

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**W7KA32** — NGM SElect

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | | |
| | | 14 | 14 | 19.3,20 | | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | |
| | 22,23 | | | 16,27.2 | 7,9.3 | |
| | 15,17 | | | | | |

**WEVGZQ** — PowerPlex® Fusion

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

**XHBXGE** — GlobalFiler™ (STRmix)

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,[14],17.3 | [18],24 | 12,14 | 15,19 | 12,[14] | |
| | 9,12 | 14 | 14 | [15],19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,[9],11 |
| | 15,17 | 11 | | | 2 | |

**XPRAW2** — GlobalFiler™

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4sp | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | N/A |
| | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | N/A | N/A | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | N/A | N/A | 2 | |

# TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **D1S1656** | **D2S1338** | **D2S441** | **D3S1358** | **D5S818** | **D6S1043** |
| | **D7S820** | **D8S1179** | **D10S1248** | **D12S391** | **D13S317** | **D16S539** |
| | **D18S51** | **D19S433** | **D21S11** | **D22S1045** | **Amelogenin** | **CSF1PO** |
| | **FGA** | **Penta D** | **Penta E** | **SE33** | **TH01** | **TPOX** |
| | **vWA** | **DYS391** | **DYS570** | **DYS576** | **Y Indel** | |

## Item 4sp - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| XPTW3Z | PowerPlex® | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | 11,14 |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | 16 | 18 | 2 | |
| XWQU2G | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| Y7QLEB | PowerPlex® Fusion 5C | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12 | | 7,9.3 | 8,11 |
| | 15,17 | 11 | - | - | - | |
| YKRKTY | GlobalFiler™ | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| YMGU2E | GlobalFiler™  (STRmix) | | | | | |
| | 11,17.3 | 18,24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| YVBYUF | GlobalFiler™  (STRmix) | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,18,19 | 12 | |
| 4sp | 9,12 | 14 | 12,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| YZMKEG | GlobalFiler™ | | | | | |
| | 11,17.3 | 24 | 12,14 | 15,19 | 12 | |
| 4sp | 9,12 | 14 | 14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |

## TABLE 1

| WebCode | Amplification Kits (Probabilistic Genotyping Software) | | | | |
|---|---|---|---|---|---|
| **Item** | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
| | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |

### Item 4sp - STR Results

| | | | | | | |
|---|---|---|---|---|---|---|
| Z7P7NV | GlobalFiler™ | | | | | |
| | 11,17.3 | 24,24 | 12,14 | 15,19 | 12,12 | |
| 4sp | 9,12 | 14,14 | 14,14 | 19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,13 | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | | | 16,27.2 | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | 2 | |
| Z7PZH9 | PowerPlex® Fusion  (True Allele) | | | | | |
| | 11,[16],17.3 | [18],[23],24 | [11],12,14 | 15,19 | 12,[13],[14] | |
| 4sp | 9,[11],12 | 14,[17] | [12],14 | [15],19.3,20 | 11,12 | 10,[11],12 |
| | [16],17,18 | 13,[14] | 29,32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | | |
| ZJVW2A | PowerPlex® Fusion  (TrueAllele) | | | | | |
| | 11,[16],17.3 | [18],[23],24 | [11],12,14 | 15,19 | 12,[13] | |
| 4sp | 9,[11],12 | [13],14,[17] | [12],14 | [15],19.3,20 | 11,12,[13] | [9],10,[11],12 |
| | [16],17,18 | 13,[14] | 29,32.2 | 16,17,[18] | X,Y | [9],10,[12],13 |
| | 22,23,[25] | [9],12,13 | 7,12,[13] | | 7,[9],9.3 | 8,[9],11 |
| | [14],15,17 | 11 | | | | |
| ZTY77E | PowerPlex® Fusion | | | | | |
| | 11,[16],17.3 | [23],24 | [11],12,14 | 15,19 | 12,[13] | |
| 4sp | 9,[11],12 | 14,[17] | 14 | [15],19.3,20 | 11,12 | 10,12 |
| | 17,18 | 13,[14] | 29,32.2 | 16,17 | X,Y | 10,13 |
| | 22,23 | 12,13 | 7,12,[13] | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |
| ZXT3V6 | PowerPlex® Fusion | | | | | |
| | 11,[14],[16],17.3 | [23],24 | [11.3],12,14 | 15,19 | 12,[14] | |
| 4sp | 9,12 | [13],14,[17] | 14 | 19.3,20 | 11,12 | 10,[11],12 |
| | [16],17,18 | 13,[14] | 29,32.2 | 16,17 | X,Y | 10,[12],13 |
| | 22,23,[25] | 12,13 | 7,12,[13] | | 7,9.3 | 8,11 |
| | 15,17 | 11 | | | | |

# YSTR Amplification Kit(s) & Results

## TABLE 2

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

### Item 2 - YSTR Results

**23PEJV — Yfiler™ — Item 2**

| | DYF387S1/437/518 | DYS19/438/533 | DYS385/439/549 | DYS389-I/448/570 | DYS389-II/449/576 | DYS390/456/627 | DYS391/458/635 | DYS392/460/643 | DYS393/481/Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

**2TDMM7 — Yfiler™ Plus — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**34CHJF — Yfiler™ Plus — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**3HAURJ — Yfiler™ — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

**3RKGXL — Yfiler™ Plus — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**46JPEZ — Yfiler™ Plus Amplification Kit — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**4DT64B — PowerPlex® Y 23 — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -- | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | -- | 14 | 17 | -- | 23 |
| | -- | 11 | 13 | 22 | 20 | -- | 23 | 10 | 12 |

**4PNFE3 — Yfiler™ — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

**6QHDGF — Yfiler™ Plus — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**72E7EQ — Yfiler™ — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

**74ZNAQ — Yfiler™ Plus — Item 2**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Item** | **DYF387S1** | **DYS19** | **DYS385** | **DYS389-I** | **DYS389-II** | **DYS390** | **DYS391** | **DYS392** | **DYS393** |
| | **DYS437** | **DYS438** | **DYS439** | **DYS448** | **DYS449** | **DYS456** | **DYS458** | **DYS460** | **DYS481** |
| | **DYS518** | **DYS533** | **DYS549** | **DYS570** | **DYS576** | **DYS627** | **DYS635** | **DYS643** | **Y GATA H4** |

### Item 2 - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **7KACVC** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7LXZVJ** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7PZENV** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **7VTBGT** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **7Z2CDQ** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7ZYPT7** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **83MBHL** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **86CC72** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **8R7ZWU** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **9232PY** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **9HVRQM** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **9JZL4X** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 2 - YSTR Results

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **9NLNF4** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **AKDVU4** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **AKJFZE** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **APU2X6** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **ATU4PR** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **AU6LTC** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **B8ZKTE** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **BZ7EZD** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **BZ8MDJ** Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **BZKUE2** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **BZLGZL** Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **CBW3FP** PowerPlex® Y 23 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |

### Item 2 - YSTR Results

**CKNC9T — Yfiler™ Plus (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 29 | DYS456 14 | DYS458 17 | DYS460 12 | DYS481 23 |
| | DYS518 38 | DYS533 11 | DYS549 | DYS570 22 | DYS576 20 | DYS627 21 | DYS635 23 | DYS643 | Y GATA H4 12 |

**D2Q74E — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**D9RMRK — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | NA | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 NA | DYS456 14 | DYS458 17 | DYS460 NA | DYS481 NA |
| | DYS518 NA | DYS533 NA | DYS549 NA | DYS570 NA | DYS576 NA | DYS627 NA | DYS635 23 | DYS643 NA | Y GATA H4 12 |

**DR3PFQ — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**ERXHXV — Yfiler™ Plus (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 29 | DYS456 14 | DYS458 17 | DYS460 12 | DYS481 23 |
| | DYS518 38 | DYS533 11 | DYS549 | DYS570 22 | DYS576 20 | DYS627 21 | DYS635 23 | DYS643 | Y GATA H4 12 |

**F2HV6Z — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**F2Y2K4 — Yfiler™ Plus (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 29 | DYS456 14 | DYS458 17 | DYS460 12 | DYS481 23 |
| | DYS518 38 | DYS533 11 | DYS549 | DYS570 22 | DYS576 20 | DYS627 21 | DYS635 23 | DYS643 | Y GATA H4 12 |

**F3DUQJ — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**FQL36F — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**FZRUNH — Yfiler™ (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 23 | DYS643 | Y GATA H4 12 |

**GCG946 — PowerPlex® Y 23 (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 | DYS456 14 | DYS458 17 | DYS460 | DYS481 23 |
| | DYS518 | DYS533 11 | DYS549 13 | DYS570 22 | DYS576 20 | DYS627 | DYS635 23 | DYS643 10 | Y GATA H4 12 |

**GLN8GD — Yfiler™ Plus (Item 2)**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| | DYS437 15 | DYS438 12 | DYS439 11 | DYS448 19 | DYS449 29 | DYS456 14 | DYS458 17 | DYS460 12 | DYS481 23 |
| | DYS518 38 | DYS533 11 | DYS549 | DYS570 22 | DYS576 20 | DYS627 21 | DYS635 23 | DYS643 | Y GATA H4 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 2 - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **GRCRKT** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **GVB6LK** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | 11 | 13 | | 22 | 20 | | 23 | 10 | 12 |
| **HXXDG2** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **HYLW7R** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | 11 | 13 | | 22 | 20 | | 23 | 10 | 12 |
| **HZ4ZU6** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **J8ZC8E** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | 11 | 13 | | 22 | 20 | | 23 | 10 | 12 |
| **JEGQ8X** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **JPJJPH** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **JTZ969** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | 11 | 13 | | 22 | 20 | | 23 | 10 | 12 |
| **KFZAAU** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **KNUHVL** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **KTUGNC** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | 11 | 13 | | 22 | 20 | | 23 | 10 | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| Item | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 2 - YSTR Results

| M4LEEL | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| M6XWUK | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| MGDF33 | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| MQF44T | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| MVV4CZ | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| N9XLD6 | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| NBFE48 | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| NHZHBA | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| NQFHVJ | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| NW3B8J | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| P3NMFK | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

| QWU98P | Yfiler™ Plus | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |

### Item 2 - YSTR Results

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **R22EEP** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **R474JJ** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **RMWHVM** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| **RWQ397** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **TATVB3** — Yfiler™ | | | | | | | | | |
| | N/A | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | N/A | 14 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| **TLN398** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **TX2K37** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **TZNFFB** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **U3BPCB** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| **U3Q2UF** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **U4LRXA** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| **UWKC92** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

## TABLE 2

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

**WebCode** — **Amplification Kit**

### Item 2 - YSTR Results

**VG42XJ — Yfiler™ Plus (Item 2)**

| | DYF387S1/DYS437/DYS518 | DYS19/DYS438/DYS533 | DYS385/DYS439/DYS549 | DYS389-I/DYS448/DYS570 | DYS389-II/DYS449/DYS576 | DYS390/DYS456/DYS627 | DYS391/DYS458/DYS635 | DYS392/DYS460/DYS643 | DYS393/DYS481/Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**VGKNB3 — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**VV8Z8B — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**W7KA32 — PowerPlex® Y 23 (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |

**WEVGZQ — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**XHBXGE — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**XPRAW2 — Yfiler™ (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | N/A | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | N/A | 14 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |

**XWQU2G — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**Y7QLEB — PowerPlex® Y 23 (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |

**YKRKTY — Yfiler™ (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

**YMGU2E — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**YVBYUF — Yfiler™ Plus (Item 2)**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Item** | **DYF387S1** | **DYS19** | **DYS385** | **DYS389-I** | **DYS389-II** | **DYS390** | **DYS391** | **DYS392** | **DYS393** |
| | **DYS437** | **DYS438** | **DYS439** | **DYS448** | **DYS449** | **DYS456** | **DYS458** | **DYS460** | **DYS481** |
| | **DYS518** | **DYS533** | **DYS549** | **DYS570** | **DYS576** | **DYS627** | **DYS635** | **DYS643** | **Y GATA H4** |

### Item 2 - YSTR Results

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| YZMKEG | Yfiler™ | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Z7P7NV | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 2 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **23PEJV** — Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **2TDMM7** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **34CHJF** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **3HAURJ** — Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **3RKGXL** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **46JPEZ** — Yfiler™ Plus Amplification Kit | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **4DT64B** — PowerPlex® Y 23 | -- | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | -- | 14 | 17 | -- | 23 |
| | -- | 11 | 13 | 22 | 20 | -- | 23 | 10 | 12 |
| **4PNFE3** — Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **6QHDGF** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **72E7EQ** — Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **74ZNAQ** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7KACVC** — Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

### Item 3 - YSTR Results

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **7LXZVJ** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7PZENV** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **7VTBGT** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **7Z2CDQ** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **7ZYPT7** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **83MBHL** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **86CC72** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **8R7ZWU** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **9232PY** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **9HVRQM** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **9JZL4X** Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **9NLNF4** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| AKJFZE | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| APU2X6 | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| ATU4PR | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| AU6LTC | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| B8ZKTE | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| BZ7EZD | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| BZ8MDJ | Yfiler™ | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| BZKUE2 | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| BZLGZL | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| CKNC9T | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| D2Q74E | Yfiler™ | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| D9RMRK | Yfiler™ | | | | | | | | |
| | NA | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | NA | 14 | 17 | NA | NA |
| | NA | NA | NA | NA | NA | NA | 23 | NA | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **DR3PFQ** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **ERXHXV** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **F2HV6Z** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **F2Y2K4** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **F3DUQJ** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FQL36F** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FZRUNH** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| **GCG946** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| **GLN8GD** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **GRCRKT** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| **GVB6LK** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| **HXXDG2** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

**Item 3 - YSTR Results**

### HYLW7R — PowerPlex® Y 23 (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| DYS518… | 11 | 13 | 22 | 20 | | | 23 | 10 | 12 |

### HZ4ZU6 — Yfiler™ Plus (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| DYS518… | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

### J8ZC8E — PowerPlex® Y 23 (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| DYS518… | 11 | 13 | 22 | 20 | | | 23 | 10 | 12 |

### JEGQ8X — Yfiler™ Plus (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| DYS518… | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

### JPJJPH — Yfiler™ (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| DYS518… | | | | | | | 23 | | 12 |

### JTZ969 — PowerPlex® Y 23 (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| DYS518… | 11 | 13 | 22 | 20 | | | 23 | 10 | 12 |

### KFZAAU — Yfiler™ (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| DYS518… | | | | | | | 23 | | 12 |

### KNUHVL — Yfiler™ (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| DYS518… | | | | | | | 23 | | 12 |

### KTUGNC — PowerPlex® Y 23 (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| DYS518… | 11 | 13 | 22 | 20 | | | 23 | 10 | 12 |

### M4LEEL — Yfiler™ Plus (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| DYS518… | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

### M6XWUK — Yfiler™ Plus (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| DYS518… | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

### MGDF33 — Yfiler™ Plus (Item 3)

| Marker set | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| row 1 | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| DYS437… | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| DYS518… | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

**MQF44T — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**MVV4CZ — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**N9XLD6 — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**NBFE48 — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**NHZHBA — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**NQFHVJ — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**NW3B8J — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**P3NMFK — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**QWU98P — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**R22EEP — Yfiler™ (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | 23 | | 12 |

**R474JJ — Yfiler™ Plus (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

**RMWHVM — PowerPlex® Y 23 (Item 3)**

| DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|
| | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| 11 | 13 | 22 | 20 | | | 23 | 10 | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| RWQ397 Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| TATVB3 Yfiler™ | N/A | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | N/A | 14 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| TLN398 Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| TX2K37 Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| TZNFFB Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| U3BPCB PowerPlex® Y 23 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| U3Q2UF Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| UWKC92 Yfiler™ | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| VG42XJ Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| VGKNB3 Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| VV8Z8B Yfiler™ Plus | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| W7KA32 PowerPlex® Y 23 | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Item** | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 3 - YSTR Results

| WebCode | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WEVGZQ | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| XHBXGE | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| XPRAW2 | Yfiler™ | | | | | | | | |
| | N/A | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | N/A | 14 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| XWQU2G | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| Y7QLEB | PowerPlex® Y 23 | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | 23 |
| | | 11 | 13 | 22 | 20 | | 23 | 10 | 12 |
| YKRKTY | Yfiler™ | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| YMGU2E | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| YVBYUF | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |
| YZMKEG | Yfiler™ | | | | | | | | |
| | | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | | 14 | 17 | | |
| | | | | | | | 23 | | 12 |
| Z7P7NV | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,14 | 13 | 30 | 24 | 11 | 13 | 13 |
| 3 | 15 | 12 | 11 | 19 | 29 | 14 | 17 | 12 | 23 |
| | 38 | 11 | | 22 | 20 | 21 | 23 | | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Item** | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4 - YSTR Results

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7ZYPT7 | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4 | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| RMWHVM | PowerPlex® Y 23 | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4 | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|  | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
|  | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4e - YSTR Results

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **23PEJV** | Yfiler™ | | | | | | | | |
|  |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **2TDMM7** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **34CHJF** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **3HAURJ** | Yfiler™ | | | | | | | | |
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **3RKGXL** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **46JPEZ** | Yfiler™ Plus Amplification Kit | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **4DT64B** | PowerPlex® Y 23 | | | | | | | | |
|  | -- | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | -- | 15 | 17 | -- | 22 |
|  | -- | 12 | 14 | 16 | 18 | -- | 23 | 10 | 12 |
| **4PNFE3** | Yfiler™ | | | | | | | | |
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **6QHDGF** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **72E7EQ** | Yfiler™ | | | | | | | | |
|  |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **74ZNAQ** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **7KACVC** | Yfiler™ Plus | | | | | | | | |
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

## TABLE 2

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

### Item 4e - YSTR Results

**7LXZVJ — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

**7PZENV — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**7VTBGT — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**7Z2CDQ — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

**83MBHL — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**86CC72 — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

**8R7ZWU — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**9232PY — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**9HVRQM — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

**9JZL4X — Yfiler™**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

**9NLNF4 — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

**AKDVU4 — Yfiler™ Plus**

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
|  | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

## TABLE 2

| WebCode / Item | DYF387S1<br>DYS437<br>DYS518 | DYS19<br>DYS438<br>DYS533 | DYS385<br>DYS439<br>DYS549 | DYS389-I<br>DYS448<br>DYS570 | DYS389-II<br>DYS449<br>DYS576 | DYS390<br>DYS456<br>DYS627 | DYS391<br>DYS458<br>DYS635 | DYS392<br>DYS460<br>DYS643 | DYS393<br>DYS481<br>Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

**Amplification Kit**

### Item 4e - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **AKJFZE** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **APU2X6** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **ATU4PR** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **AU6LTC** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **B8ZKTE** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **BZ7EZD** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **BZ8MDJ** — Yfiler™ |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **BZKUE2** — Yfiler™ | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **BZLGZL** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **CBW3FP** — PowerPlex® Y 23 |  |  |  |  |  |  |  |  |  |
| 4e |  |  |  |  |  |  |  |  |  |
| **CKNC9T** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **D2Q74E** — Yfiler™ |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |

### Item 4e - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **D9RMRK** — Yfiler™ | NA | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | NA | 15 | 17 | NA | NA |
| | NA | NA | NA | NA | NA | NA | 23 | NA | 12 |
| **DR3PFQ** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **ERXHXV** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **F2HV6Z** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **F2Y2K4** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **F3DUQJ** — Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FQL36F** — Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FZRUNH** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **GCG946** — PowerPlex® Y 23 | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | 12 | 14 | 16 | 18 | | | 23 | 10 | 12 |
| **GLN8GD** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **GRCRKT** — Yfiler™ Plus | | | | | | | | | |
| 4e | | | | | | | | | |
| | | | | | | | | | |
| **GVB6LK** — PowerPlex® Y 23 | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | 12 | 14 | 16 | 18 | | | 23 | 10 | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4e - YSTR Results

**HXXDG2** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**HYLW7R** — PowerPlex® Y 23

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**HZ4ZU6** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**J8ZC8E** — PowerPlex® Y 23

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**JEGQ8X** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**JPJJPH**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**JTZ969** — PowerPlex® Y 23

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**KFZAAU** — Yfiler™

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**KNUHVL** — Yfiler™

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**KTUGNC** — PowerPlex® Y 23

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**M4LEEL** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**M6XWUK** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4e - YSTR Results

**MGDF33** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**MQF44T** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**MVV4CZ** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**N9XLD6** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4e | | | | | | | | | |

**NBFE48** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**NHZHBA** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**NQFHVJ** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**NW3B8J** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**P3NMFK** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**QWU98P** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**R22EEP** — Yfiler™

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**R474JJ** — Yfiler™ Plus

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4e - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **RWQ397** — Yfiler™ | | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **TATVB3** — Yfiler™ | | | | | | | | | |
| | N/A | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | N/A | 15 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| **TLN398** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **TX2K37** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **TZNFFB** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **U3Q2UF** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **U4LRXA** — PowerPlex® Y 23 | | | | | | | | | |
| 4e | | | | | | | | | |
| **UWKC92** — Yfiler™ | | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **VG42XJ** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **VGKNB3** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **VV8Z8B** — Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **W7KA32** — PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Item** | **DYF387S1** | **DYS19** | **DYS385** | **DYS389-I** | **DYS389-II** | **DYS390** | **DYS391** | **DYS392** | **DYS393** |
| | **DYS437** | **DYS438** | **DYS439** | **DYS448** | **DYS449** | **DYS456** | **DYS458** | **DYS460** | **DYS481** |
| | **DYS518** | **DYS533** | **DYS549** | **DYS570** | **DYS576** | **DYS627** | **DYS635** | **DYS643** | **Y GATA H4** |

### Item 4e - YSTR Results

| WebCode | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| WEVGZQ | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| XHBXGE | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| XPRAW2 | Yfiler™ | | | | | | | | |
| | N/A | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | N/A | 15 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| XWQU2G | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| Y7QLEB | PowerPlex® Y 23 | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |
| YKRKTY | Yfiler™ | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| YMGU2E | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| YVBYUF | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| YZMKEG | Yfiler™ | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| Z7P7NV | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4e | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |

### Item 4sp - YSTR Results

| Item | DYF387S1/DYS437/DYS518 | DYS19/DYS438/DYS533 | DYS385/DYS439/DYS549 | DYS389-I/DYS448/DYS570 | DYS389-II/DYS449/DYS576 | DYS390/DYS456/DYS627 | DYS391/DYS458/DYS635 | DYS392/DYS460/DYS643 | DYS393/DYS481/Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **23PEJV** Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **2TDMM7** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **34CHJF** Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **3HAURJ** Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **3RKGXL** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **46JPEZ** Yfiler™ Plus Amplification Kit | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **4DT64B** PowerPlex® Y 23 | -- | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | -- | 15 | 17 | -- | 22 |
| | -- | 12 | 14 | 16 | 18 | -- | 23 | 10 | 12 |
| **4PNFE3** Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **6QHDGF** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **72E7EQ** Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **74ZNAQ** Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **7KACVC** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

## TABLE 2

| WebCode / Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| (Amplification Kit) | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
|  | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4sp - YSTR Results

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| **7LXZVJ** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **7PZENV** Yfiler™ |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **7VTBGT** Yfiler™ |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **7Z2CDQ** Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **83MBHL** Yfiler™ |  | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **86CC72** Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **8R7ZWU** Yfiler™ |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **9232PY** Yfiler™ |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **9HVRQM** Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **9JZL4X** Yfiler™ |  | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 |  | 15 | 17 |  |  |
|  |  |  |  |  |  |  | 23 |  | 12 |
| **9NLNF4** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |
| **AKDVU4** Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
|  | 38 | 12 |  | 16 | 18 | 23 | 23 |  | 12 |

## TABLE 2

| WebCode / Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|

### Item 4sp - YSTR Results

**AKJFZE** — Yfiler™ Plus

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**APU2X6** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**ATU4PR** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**AU6LTC** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**B8ZKTE** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**BZ7EZD** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**BZ8MDJ** — Yfiler™

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**BZKUE2** — Yfiler™

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**BZLGZL** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**CBW3FP** — PowerPlex® Y 23

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | 12 | 14 | | 16 | 18 | | 23 | 10 | 12 |

**CKNC9T** — Yfiler™ Plus

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**D2Q74E** — Yfiler™

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4sp - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **D9RMRK** — Yfiler™ | NA | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | NA | 15 | 17 | NA | NA |
| | NA | NA | NA | NA | NA | NA | 23 | NA | 12 |
| **DR3PFQ** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **ERXHXV** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **F2HV6Z** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **F2Y2K4** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **F3DUQJ** — Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FQL36F** — Yfiler™ | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **FZRUNH** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **GCG946** — PowerPlex® Y 23 | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |
| **GLN8GD** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **GRCRKT** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **GVB6LK** — PowerPlex® Y 23 | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4sp - YSTR Results

**HXXDG2 — Yfiler™ Plus**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**HYLW7R — PowerPlex® Y 23**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**HZ4ZU6 — Yfiler™ Plus**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**J8ZC8E — PowerPlex® Y 23**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**JEGQ8X — Yfiler™ Plus**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**JPJJPH**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**JTZ969 — PowerPlex® Y 23**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**KFZAAU — Yfiler™**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**KNUHVL — Yfiler™**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |

**KTUGNC — PowerPlex® Y 23**

| | | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |

**M4LEEL — Yfiler™ Plus**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

**M6XWUK — Yfiler™ Plus**

| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4sp | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

# TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

## Item 4sp - YSTR Results

| Item | DYF387S1 / DYS437 / DYS518 | DYS19 / DYS438 / DYS533 | DYS385 / DYS439 / DYS549 | DYS389-I / DYS448 / DYS570 | DYS389-II / DYS449 / DYS576 | DYS390 / DYS456 / DYS627 | DYS391 / DYS458 / DYS635 | DYS392 / DYS460 / DYS643 | DYS393 / DYS481 / Y GATA H4 |
|---|---|---|---|---|---|---|---|---|---|
| **MGDF33** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **MQF44T** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **MVV4CZ** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **N9XLD6** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **NBFE48** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **NHZHBA** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **NQFHVJ** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **NW3B8J** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **P3NMFK** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **QWU98P** — Yfiler™ Plus | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **R22EEP** — Yfiler™ | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **R474JJ** — Yfiler™ Plus | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

## TABLE 2

| WebCode / Item | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |

### Item 4sp - YSTR Results

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **RWQ397** | Yfiler™ | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **TATVB3** | Yfiler™ | | | | | | | | |
| | N/A | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | N/A | 15 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| **TLN398** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **TX2K37** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **TZNFFB** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **U3Q2UF** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **U4LRXA** | PowerPlex® Y 23 | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | 12 | 14 | 16 | 18 | | | 23 | 10 | 12 |
| **UWKC92** | Yfiler™ | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **VG42XJ** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **VGKNB3** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **VV8Z8B** | Yfiler™ Plus | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **W7KA32** | PowerPlex® Y 23 | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | 12 | 14 | 16 | 18 | | | 23 | 10 | 12 |

## TABLE 2

| WebCode | Amplification Kit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Item** | **DYF387S1** | **DYS19** | **DYS385** | **DYS389-I** | **DYS389-II** | **DYS390** | **DYS391** | **DYS392** | **DYS393** |
| | **DYS437** | **DYS438** | **DYS439** | **DYS448** | **DYS449** | **DYS456** | **DYS458** | **DYS460** | **DYS481** |
| | **DYS518** | **DYS533** | **DYS549** | **DYS570** | **DYS576** | **DYS627** | **DYS635** | **DYS643** | **Y GATA H4** |

### Item 4sp - YSTR Results

| Item | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **WEVGZQ** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **XHBXGE** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **XPRAW2** Yfiler™ | | | | | | | | | |
| | N/A | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | N/A | 15 | 17 | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | 23 | N/A | 12 |
| **XWQU2G** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **Y7QLEB** PowerPlex® Y 23 | | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | 22 |
| | | 12 | 14 | 16 | 18 | | 23 | 10 | 12 |
| **YKRKTY** Yfiler™ | | | | | | | | | |
| | | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **YMGU2E** | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **YVBYUF** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |
| **YZMKEG** Yfiler™ | | | | | | | | | |
| | | 14 | 11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | | 15 | 17 | | |
| | | | | | | | 23 | | 12 |
| **Z7P7NV** Yfiler™ Plus | | | | | | | | | |
| | 35,36 | 14 | 11,11 | 13 | 29 | 24 | 11 | 13 | 13 |
| 4sp | 14 | 12 | 12 | 19 | 31 | 15 | 17 | 11 | 22 |
| | 38 | 12 | | 16 | 18 | 23 | 23 | | 12 |

# Additional DNA Results

TABLE 3

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

| Locus | WebCode | Item 1 | Item 2 | Item 3 | Item 3e | Item 3sp | Item 4 | Item 4e | Item 4sp |
|---|---|---|---|---|---|---|---|---|---|
| D12ATA63 | XPTW3Z | | | 12,14,[15] | | | | [12],[15],17 | 17,17 |
| D14S1434 | XPTW3Z | | | [10],13,14 | | | | 10,11,13 | 10,11 |
| D1S1677 | XPTW3Z | | | 13,[15] | | | | [13],15 | 15,15 |
| D2S1776 | XPTW3Z | | | [9],12,[14] | | | | 8,9,11,14 | 8,11 |
| D3S4529 | XPTW3Z | | | 13,[14],[15],16 | | | | 12,[14],15 | 12,15 |
| D4S2408 | XPTW3Z | | | 9,10,11 | | | | 10,11 | 10,11 |
| D5S2800 | XPTW3Z | | | 14,17,[20],[23] | | | | 17,[20],23 | 17,23 |
| D6S474 | XPTW3Z | | | 16,[17] | | | | [15],17,18 | 17,18 |
| SRY | XPTW3Z | | | 1 | | | | 1 | 1 |

# DNA Interpretations

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

## TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
|         | Item 3 | Item 4 | Item 3 | Item 4 |         | Item 3 | Item 4 | Item 3 | Item 4 |
| 23PEJV | Yes | Yes | Yes | No | 7LXZVJ | Yes | Yes | Yes | No |
| 28WCKM | Yes | Yes | Yes | No | 7PZENV | Yes | Yes | Yes | No |
| 2TDMM7 | Yes | Yes | Yes | No | 7VTBGT | Yes | Yes | Yes | No |
| 34CHJF | Yes | Yes | Yes | No | 7Z2CDQ | Yes | Yes | Yes | No |
| 3HAURJ | Yes | Yes | Yes | No | 7ZYPT7 | Yes | No | Yes | No |
| 3RKGXL | Yes | Yes | Yes | No | 83MBHL | Yes | Yes | Yes | No |
| 3UPLFT | Yes | Yes | Yes | No | 86CC72 | Yes | Yes | Yes | No |
| 46JPEZ | Yes | Yes | Yes | No | 8R7ZWU | Yes | Yes | Yes | No |
| 4DT64B | Yes | Yes | Yes | No | 9232PY | Yes | Yes | Yes | No |
| 4JYFZ2 | Yes | Yes | Yes | No | 9F7P2R | Yes | Yes | Yes | No |
| 4KT9VK | Yes | Yes | Yes | No | 9HVRQM | Yes | Yes | Yes | No |
| 4PNFE3 | Yes | Yes | Yes | No | 9JZL4X | Yes | Yes | Yes | No |
| 63RK2Z | Yes | Yes | Yes | No | 9NLNF4 | Yes | Yes | Yes | No |
| 6ATX4N | Yes | Yes | Yes | No | A8B6FQ | Yes | Yes | Yes | No |
| 6MFMWA | Yes | Yes | Yes | No | AKDVU4 | Yes | Yes | Yes | No |
| 6QHDGF | Yes | Yes | Yes | No | AKJFZE | Yes | Yes | Yes | No |
| 72E7EQ | Yes | Yes | Yes | No | APU2X6 | Yes | Yes | Yes | No |
| 74ZNAQ | Yes | Yes | Yes | No | ATU4PR | Yes | Yes | Yes | No |
| 7JX86M | Yes | Yes | Yes | No | AU6LTC | Yes | Yes | Yes | No |
| 7KACVC | Yes | Yes | Yes | No | AVHPBM | Yes | Yes | Yes | No |

# TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
|---|---|---|---|---|---|---|---|---|---|
| | Item 3 | Item 4 | Item 3 | Item 4 | | Item 3 | Item 4 | Item 3 | Item 4 |
| B8ZKTE | Yes | Yes | Yes | No | FZRUNH | Yes | Yes | Yes | No |
| BEQAMG | Yes | Yes | Yes | No | GCG946 | Yes | Yes | Yes | No |
| BZ7EZD | Yes | Yes | Yes | No | GLN8GD | Yes | Yes | Yes | No |
| BZ8MDJ | Yes | Yes | Yes | No | GMRFGR | Yes | Yes | Yes | No |
| BZKUE2 | Yes | Yes | Yes | No | GRCRKT | Yes | Yes | Yes | No |
| BZLGZL | Yes | Yes | Yes | No | GV83QV | Yes | Yes | Yes | No |
| CBW3FP | Yes | Yes | Yes | No | GVB6LK | Yes | Yes | Yes | No |
| CHJQGM | Yes | Yes | Yes | No | HMB2VT | Yes | Yes | Yes | No |
| CKNC9T | Yes | Yes | Yes | No | HXXDG2 | Yes | Yes | Yes | No |
| CNNVH2 | Yes | Yes | Yes | No | HYLW7R | Yes | Yes | Yes | No |
| D2Q74E | Yes | Yes | Yes | No | HZ4ZU6 | Yes | Yes | Yes | No |
| D9RMRK | Yes | Yes | Yes | No | J8ZC8E | Yes | Yes | Yes | No |
| DR3PFQ | Yes | Yes | Yes | No | JEGQ8X | Yes | Yes | Yes | No |
| DY9LJK | Yes | Yes | Yes | No | JFVK3J | Yes | Yes | Yes | No |
| ERXHXV | Yes | Yes | Yes | No | JPJJPH | Yes | Yes | Yes | No |
| F2HV6Z | Yes | Yes | Yes | No | JTZ969 | Yes | Yes | Yes | No |
| F2Y2K4 | Yes | Yes | Yes | No | K3K4GT | Yes | Yes | Yes | No |
| F3DUQJ | Yes | Yes | Yes | No | KFZAAU | Yes | Yes | Yes | No |
| FF6XUK | Yes | Yes | Yes | No | KJQYY8 | Yes | Yes | Yes | No |
| FQL36F | Yes | Yes | Yes | No | KNUHVL | Yes | Yes | Yes | No |
| FXH4YE | Yes | Yes | Yes | No | KP9CVL | Yes | Yes | Yes | No |

# TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| | Item 3 | Item 4 | Item 3 | Item 4 | | Item 3 | Item 4 | Item 3 | Item 4 |
| KTUGNC | Yes | Yes | Yes | No | PLDLGJ | Yes | Yes | Yes | No |
| L63HKU | Yes | Yes | Yes | No | QDLB2U | Yes | Yes | Yes | No |
| LJJJ6D | Yes | Yes | Yes | No | QDYKXT | Yes | Yes | Yes | No |
| LU22Z7 | Yes | Yes | Yes | No | QRF6Y9 | Yes | Yes | Yes | No |
| M4LEEL | Yes | Yes | Yes | No | QWU98P | Yes | Yes | Yes | No |
| M6XWUK | Yes | Yes | Yes | No | QX6HAG | Yes | Yes | Yes | No |
| MFDNTN | Yes | Yes | Yes | No | R22EEP | Yes | Yes | Yes | No |
| MFYW3R | Yes | Yes | Yes | No | R474JJ | Yes | Yes | Yes | No |
| MGDF33 | Yes | Yes | Yes | No | RMWHVM | Yes | Yes | Yes | No |
| MMFKW8 | Yes | Yes | Yes | No | RT9QLX | Yes | Yes | Yes | No |
| MQF44T | Yes | Yes | Yes | No | RUKK4J | Yes | Yes | Yes | No |
| MVV4CZ | Yes | Yes | Yes | No | RWQ397 | Yes | Yes | Yes | No |
| N4HUVK | Yes | Yes | Yes | No | RXJYQ9 | Yes | Yes | Yes | No |
| N9XLD6 | Yes | Yes | Yes | No | RXJZDR | Yes | Yes | Yes | No |
| NBFE48 | Yes | Yes | Yes | No | TATVB3 | Yes | Yes | Yes | No |
| NHZHBA | Yes | Yes | Yes | No | TLN398 | Yes | Yes | Yes | No |
| NQFHVJ | Yes | Yes | Yes | No | TQEL4A | Yes | Yes | Yes | No |
| NT34HE | Yes | Yes | Yes | No | TX2K37 | Yes | Yes | Yes | No |
| NW3B8J | Yes | Yes | Yes | No | TZNFFB | Yes | Yes | Yes | No |
| P3NMFK | Yes | Yes | Yes | No | U3BPCB | Yes | Yes | Yes | No |
| P7KCWR | Yes | Yes | Yes | No | U3Q2UF | Yes | Yes | Yes | No |

# TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
|---------|-----------------|--------|------------------|--------|---------|-----------------|--------|------------------|--------|
|         | Item 3 | Item 4 | Item 3 | Item 4 |         | Item 3 | Item 4 | Item 3 | Item 4 |
| U4LRXA | Yes | Yes | Yes | No | Y648GR | No Interp | No Interp | No Interp | No Interp |
| U7QMVD | Yes | Yes | Yes | No | Y7QLEB | Yes | Yes | Yes | No |
| UCVYWX | Yes | Yes | Yes | No | YKRKTY | Yes | Yes | Yes | No |
| ULKA3R | Yes | Yes | Yes | No | YMGU2E | Yes | Yes | Yes | No |
| UNR6PV | Yes | Yes | Yes | No | YVBYUF | Yes | Yes | Yes | No |
| UVQNRR | Yes | Yes | Yes | No | YZMKEG | Yes | Yes | Yes | No |
| UWKC92 | Yes | Yes | Yes | No | Z7P7NV | Yes | Yes | Yes | No |
| VFT2Y4 | Yes | Yes | Yes | No | Z7PZH9 | Yes | Yes | Yes | No |
| VG42XJ | Yes | Yes | Yes | No | ZJVW2A | Yes | Yes | Yes | No |
| VGKNB3 | Yes | Yes | Yes | No | ZTY77E | Yes | Yes | Yes | No |
| VGZUTD | Yes | Yes | Yes | No | ZXT3V6 | Yes | Yes | Yes | No |
| VMU7WF | Yes | Yes | Yes | No | | | | | |
| VV8Z8B | Yes | Yes | Yes | No | | | | | |
| VXV6VV | No Interp | No Interp | No Interp | No | | | | | |
| W7KA32 | Yes | Yes | Yes | No | | | | | |
| WEVGZQ | Yes | Yes | Yes | No | | | | | |
| WJ9EAY | Yes | Yes | Yes | No | | | | | |
| XHBXGE | Yes | Yes | Yes | No | | | | | |
| XPRAW2 | Yes | Yes | Yes | No | | | | | |
| XPTW3Z | Yes | Yes | Yes | No | | | | | |
| XWQU2G | Yes | Yes | Yes | No | | | | | |

## DNA Interpretation

**Response Summary**                                          **Participants reporting DNA results: 156**

*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)?*

|  | Victim (Item 1) | | Suspect (Item 2) | |
| --- | :---: | :---: | :---: | :---: |
|  | Item 3 | Item 4 | Item 3 | Item 4 |
| Yes | **154** | **153** | **154** | **0** |
| No | **0** | **1** | **0** | **155** |
| Inc | **0** | **0** | **0** | **0** |
| No Interpretation | **2** | **2** | **2** | **1** |
| No Response | **0** | **0** | **0** | **0** |

**Participants analyzing DNA for database purposes only: 0**

# Additional Comments

## TABLE 5

| WebCode | Additional Comments |
|---------|---------------------|
| 23PEJV | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds. |
| 28WCKM | Case run through STRmix. |
| 34CHJF | NR= No results |
| 3RKGXL | STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results. |
| 46JPEZ | For Item 3 we performed non-differential extractions. As the result we obtained DNA mixture from at least two people. In this mixture dominant full profile (major component) was compatible to DNA profile of the Suspect (Item 2). In DNA which is minor component of the mixture, we observes all alleles from Victim's DNA profile (Item 1). For Item 4 we performed differential extraction: -In sample Item4M (Item 4sp - sperm fraction) we obtained male DNA which doesn't derive from the Suspect (Item 2). -In sample Item4Z (Item 4e - epithelial fraciton) we obtained DNA mixture derived from at least two people. In mixture we indicated DNA alleles compatible to DNA profile of the Victim (Item 1) and DNA alleles compatible with person which male profile DNA was obtained in sample Item4M. DNA doesn't derive from the the Suspect (Item 2). We performed statistical analysis of resultes using "LRMix studio v.2.1.3-Community Edition" as do we do with normal results. Value of LR was interpreter of value of the proof and was express in words, using the [Laboratory] recommendation ([Laboratory] guideline for evaluative reporting in forensic science, 2015). LR value was count for: - Item 3 stain (for which was performed non-differential DNA extraction). - Item 4Z (item 4e - epithelial fraction of differential DNA extraction), We had confirmed comparative material from the Victim (Item 1) and the Suspect (Item 2) to proceed with analysis. Calculations was based on population database for GlobalFiler PCA Amplification Kit producer of reagents for Caucasian population. We used allele frequencies from that database. This statistical analysis contains below conclusions: 1) Proof from genetic analysis from Item 3 sample gives extreme high support (LR=3,04 x 10^19) for hypothesis, that this sample contains DNA of the Victim (Item 1) and DNA different, unknown (NN), coincidental, not-related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not-related people in population. 2) Proof from genetic analysis from Item 3 sample gives extreme high support (LR=3,42 x 10^11) for hypothesis, that this sample contains DNA of the Suspect (Item 2) and different, unknown (NN), coincidental, not-related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not-related people in population. 3) Proof from genetic analysis for item 4Z (Item 4e) sample gives extreme high support (LR=3,43 x 10^19) for hypothesis, that this sample contains DNA of the Victim (Item 1) and DNA of the different, unknown (NN), coincidental, not-related person in population, against to alternative hypothesis saying that sample contain DNA of two different, unknown (NN), coincidental, not-related people in population. |
| 4DT64B | Item-3 is a DNA mixture. Female Victim (Item-1) and Male Suspect (Item-2) are not excluded as stain contributors. Item-4 is a DNA mixture. Differential extraction was performed. Female Victim (Item-1) is not excluded as stain contributor. PPF/Y23 profiles from the sperm fraction (Item-4 [sp]) are of single-male DNA. Suspect (Item-2) is excluded as stain contributor. The profile alleles listed in the report were detected at peak intensities equal to or greater than the laboratory threshold levels. |
| 4KT9VK | Items 3 and 4 were extracted via differential separation, per laboratory protocol. No human DNA was detected in the sperm fraction of item 3, so the report will reflect the non-sperm fraction (epi-fraction) only for item 3. STRmix analysis was conducted on this test. |
| 4PNFE3 | Extraction: -Item 1, Item 2 and Item 4 were extracted using chelex method. -Item 3 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -Electrophoresis were carried out on Item 1, Item 2, Item 3 and Item 4 using Genetic Analyzer 3500xL. Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results. -NM : Non-Male profile. |

# TABLE 5

| WebCode | Additional Comments |
|---------|---------------------|
| 6ATX4N | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. |
| 6QHDGF | NR=No Results. STRmix analysis was conducted on Item 3 and Item 4e. Data for all reported items was generated with GeneMapper ID-X. |
| 72E7EQ | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds |
| 74ZNAQ | NR = no results. Y-screening (male DNA) analysis with QF Trio was performed on items 3 and 4. Items 3 and 4 were positive for human male DNA. |
| 7PZENV | Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Trio. |
| 7VTBGT | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds |
| 7Z2CDQ | NR=no results |
| 7ZYPT7 | Item 3 = 2 person Mixture: vs Item 1 + 1 Unkn, Log(LR) = 2,0E+01 (CaseSolver); Log(LR) = 1,9E+01 (LRMixStudio); Log(LR) = 1,8E+01 (LabRetriever African American); Log(LR) = 1,9E+01 (LabRetriever Caucasian); Log(LR) = 1,8E+01 (LabRetriever Hispanic); Log(LR) = 3,4E+01 (DNAView); Log(LR) = 3,3E+01 (EFM). vs Item 2 + 1 Unkn, Log (LR) = 9,3E+00 (CaseSolver): Log(LR) = 1,2E+01 (LRMixStudio); Log(LR) = 1,0E+01 (LabRetriever African American); Log(LR) = 1,0E+01 (LabRetriever Caucasian); Log(LR) = 9,5E+00 (LabRetriever Hispanic); Log(LR) = 3,1E+01 (DNAView); Log(LR) = 3,1E+01 (EFM). vs Item 1 + Item 2: Log(LR) = 4,0E+01 (LRMixStudio); Log(LR) = 3,4E+01 (LabRetriever African American); Log(LR) = 3,6E+01 (LabRetriever Caucasian); Log(LR) = 3,5E+01 (LabRetriever Hispanic); Log(LR) = 6,6E+01 (DNAView); Log(LR) = 6,4E+01 (EFM). vs Item 4: Log(LR) = -1,2E+01 (CaseSolver). Given Mixture 3 Data, it is from $10^{33}$ to $10^{65}$ time more probable that it derives from Reference 1 (Item 1) and Reference 2 (Item 2) than other two person in the reference population. Given Item 4 data, there is not evidence of Reference 1 or Reference 2 contribution. mRMP Item 4 = 8,8E+39. |
| 9232PY | Extraction: -Item 1, Item 2 and Item 4 were extracted using chelex method. -Item 3 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -Electrophoresis were carried out on Item 1, Item 2, Item 3 and Item 4 using Genetic Analyzer 3500xL. Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results. NM: Non-male profile. |
| 9HVRQM | NR = No Results. Y-Screening for male DNA was performed on items 3 and 4 using real-time PCR (Quantifiler Trio). Items 3 and 4 both tested positive for the presence of male DNA. |
| 9JZL4X | Extraction: Item 1, Item 2 and Item 4 were extracted using Chelex extraction method. Item 3 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA kit on RT-PCR QuantStudio 5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, Item 3 and Item 4 using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-Filer for Item 2 Item 3 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile. |
| A8B6FQ | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. |

## TABLE 5

| WebCode | Additional Comments |
|---------|---------------------|
| AKJFZE | NR=no results. STRmix analysis was conducted in items 3 and 4e. Data reported out is from analysis using GeneMapper ID-X. |
| AU6LTC | NR= No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. |
| BZ7EZD | NR = no results. STRmix analysis was conducted on this test. The data reported is from GeneMapper ID-X. |
| BZLGZL | NR=No Results. Y-Screen results: Item 3 and item 4 both Y-Screen positive. |
| CHJQGM | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. |
| CNNVH2 | Probabilistic genotyping was used to support inclusion/exclusions. |
| D9RMRK | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds. NA - Not applicable. |
| F2HV6Z | Extraction: - Item 1 and Item 2 were extracted using Prepfiler Express Kit. - Item 3 was extracted using Chelex Extraction. - Item 4 was extracted using Chelex Differential Extraction. Quantification: Item 1 to Item 4 were quantified using Quantifiler Human DNA Quantification Kit and carried out by 7500 Real-Time PCR. Amplification: - Item 1 to Item 4 were amplified using Globalfiler PCR Amplication Kit on 9700 ABI GeneAmp PCR System. -Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Y Filer PCR Amplification Kit on 9700 ABI GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by ABI Genetic Analyzer 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control and negative control were carried out along with the analysis and all gave the intended results. NM: represents non male profile. |
| F3DUQJ | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds |
| FQL36F | [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds |
| HMB2VT | STRmix analysis was conducted on this test. |
| J8ZC8E | For Item 4e with Fusion 5C, due to a possible unresolved allele above analytical threshold at D2S441, this locus was not used for STRmix. |
| K3K4GT | Probabilistic genotyping was used to support inclusions/exclusions |
| KFZAAU | Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Globalfiler PCR Amplification kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using the AmpFISTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. |
| KJQYY8 | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. |

# TABLE 5

| WebCode | Additional Comments |
|---------|---------------------|
| KNUHVL | Extraction: Item 1, Item 2 and Item 4 were extracted using chelex method. Item 3 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis were carried out on Item 1, Item 2, Item 3 and Item 4 using Genetic Analyzer 3500xL. Quality Control: Reagent blank, Positive Control and Negative Control were carried out throughout the analysis and all gave intended results. NM: Non-male profile. |
| KTUGNC | Item 4 :positive sperm test |
| L63HKU | Probabilistic genotyping was used to support inclusions/exclusions. |
| MVV4CZ | NR = No Result. STRmix analysis conducted on this test. Data analyzed with GeneMapper ID-X. |
| N9XLD6 | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. |
| NBFE48 | YS Results: 1C+, 1D+. NR = No results. |
| NHZHBA | Item 1: NR=No results at DYS391 and Yindel. Item 3: Y Screen (QF Trio) positive. Item 4: Y Screen (QF Trio) positive. Item 2: YFiler Plus direct mode was used. |
| P7KCWR | NR- no DNA result, [ ] - lighter intensity allele |
| QDYKXT | NR = No Results |
| QX6HAG | Probabilistic Genotyping was used to support inclusions/exclusions. |
| R22EEP | Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ 7500 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ and AmpFLSTR™ YFiler™ PCR Amplification Kits on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed using GeneMapper™ ID-X Software v1.5. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results. Remark: 'NM' denoted non-male DNA profile. |
| R474JJ | Y-screening performed on items 3 and 4. Male DNA was detected for items 3 and 4. |
| RMWHVM | Item4: All of the victims alleles have been called in at least 1 PCR (out of 4). Some alleles however were not reproduced and did not reach the consensus based on the N/2 method. This was mostly due to them being on stutter-positions and not reaching the required percentage which we determined for alleles to be reliably called (-1 stutter location >20%, +1 stutter location >10%) |
| RT9QLX | STRmix analysis was conducted on this test. A differential separation was completed on Item 3. The sperm fraction was stopped for insufficient amount of DNA. |
| RWQ397 | []- indicates minor alleles and/or alleles between analytical and stochastic thresholds |
| RXJYQ9 | The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. ITEM 3-S was discontinued as the amount of DNA recovered is too low and the sample is unlikely to provide informative results. |
| TATVB3 | N/A = Not Applicable. [ ] - indicates alleles between analytical and stochastic thresholds. |

## TABLE 5

| WebCode | Additional Comments |
|---------|---------------------|
| TX2K37 | NR=no results. Items 3, 4 YS+. |
| U7QMVD | Item 3: probabilistic genotyping was used to support inclusions. |
| UNR6PV | STRmix analysis was conducted on this test. |
| VGKNB3 | Item 3: Y-screening positive. Item 4: Y-Screening positive. Items 1 and 2 were not analyzed with Y-Screen analysis. |
| VMU7WF | STRmix analysis was conducted on this test. |
| VXV6VV | For Item 4, a differential extraction was performed and produced an indistinguishable mixture for the EF therefore no comparisons were made, and no statistical analysis was performed. A single source, male DNA profile was obtained for the SF. This profile was not consistent with the DNA profile obtained from the known sample of Female Victim or the DNA profile obtained from the known sample of Male Suspect. |
| W7KA32 | Item 3 - single very low level peak detected at D21S11 in the '29' allele position. Has good peak morphology and no clear reason to explain it as an artefact but could be allelic drop-in. This is the only peak in the mixed DNA profile obtained not accounted for by a mixture of DNA from both the female victim and male suspect. Given this, the D21 '29' has been included in the alleles reported for this item. |
| WEVGZQ | NR = No Results. The data reported out in this test is from analysis using GeneMaper ID-X. STRmix analysis was conducted on this test. |
| XPRAW2 | [] - indicated minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable. |
| Y648GR | This proficiency test was limited to DNA extraction and quantitation. No further analysis was performed. |
| YKRKTY | []-indicates minor allele/s and alleles between analytical and stochastic thresholds. |
| YZMKEG | Extraction: Item 1 to Item 4 were extracted using the Chelex extraction method. Quantification: Item 1 to Item 4 were quantified using the Quantifiler Human DNA Quantification Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 to Item 4 were amplified using the Globalfiler PCR Amplification Kit on 9700 GeneAmp PCR system. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using the AmpFISTR Y-filer PCR Amplification Kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystem 3500xl Genetic Analyzer with Genemapper ID-X Software for Item 1 to Item 4 (Globalfiler). Electrophoresis for Y-filer was carried out on the Applied Biosystem 3500xl Genetic Analyzer with Genemapper ID-X Software for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. NM = Non Male profile. |
| Z7P7NV | NR= No Results. Y-Screen Assay Results: Item 3: Positive for human male DNA. Item 4: Positive for human male DNA. Item 2 was analyzed with Yfller Plus in direct mode (direct amp). |
| Z7PZH9 | Probabilistic genotyping was used to support inclusions/exclusions. |
| ZJVW2A | Probabilistic genotyping was used to support inclusion/exclusions. |
| ZTY77E | Probabilistic genotyping was used to support inclusions/exclusions. |
| ZXT3V6 | Probabilistic genotyping was used to support inclusions/exclusions. |

-End of Report-
(Appendix may follow)

# Test No. 23-5801: DNA-Mixture

DATA MUST BE SUBMITTED BY **March 06, 2023, 11:59 p.m. EST** TO BE INCLUDED IN THE REPORT

Participant Code:   U1234A                    WebCode:   NPHQZ8

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

## Scenario:
Police are investigating a sexual assault involving a female victim and male suspect. The female victim reported to police that she visited the male suspect at his house last night. The couple attended several parties where the victim had several drinks and smoked marihuana. The victim does not remember anything after walking back to the suspect's house after the last party. The victim awoke alone on the suspect's couch wearing only her underwear. She also noticed several lacerations on her face and breasts. Investigators are submitting a cutting from a stain found on the suspect's couch (Item 3) and a stain from the underwear the victim was wearing (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (cutting from couch) is positive for blood, and Item 4 (victim's underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

## Items Submitted (Sample Pack S1):
Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood stain from suspect's couch (off-white)
Item 4: Questioned blood and semen stain from victim's underwear (yellow)

*Part I: DNA Results for Known Item 1*

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>  Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®          ☐ GlobalFiler™          ☐ Investigator® 24plex

☐ PowerPlex®          Other

Report the Probabilistic Genotyping Software Used (if applicable):

*Alleles below are sorted in* **Default** *order.*

| ITEM | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|------|---------|---------|--------|---------|--------|---------|
| 1    |         |         |        |         |        |         |
| ITEM | D7S820  | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| 1    |         |         |        |         |        |         |
| ITEM | D18S51  | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| 1    |         |         |        |         |        |         |
| ITEM | FGA     | Penta D | Penta E | SE33   | TH01   | TPOX    |
| 1    |         |         |        |         |        |         |
| ITEM | vWA     | DYS391  | DYS570 | DYS576  | Y Indel |         |
| 1    |         |         |        |         |        |         |

*Part I (continued): DNA Results for Known Item 2*

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®    ☐ GlobalFiler™    ☐ Investigator® 24plex

☐ PowerPlex®    Other

Report the Probabilistic Genotyping Software Used (if applicable):

*Alleles below are sorted in* **Default** *order.*

| ITEM | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|------|---------|---------|--------|---------|--------|---------|
| 2 | | | | | | |
| ITEM | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| 2 | | | | | | |
| ITEM | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| 2 | | | | | | |
| ITEM | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| 2 | | | | | | |
| ITEM | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |
| 2 | | | | | | |

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

☐ YFiler™    ☐ PowerPlex® Y    Other

*Alleles below are sorted in* **Default** *order.*

| ITEM | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|------|----------|-------|--------|----------|-----------|--------|--------|--------|--------|
| 2 | | | | | | | | | |
| ITEM | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| 2 | | | | | | | | | |
| ITEM | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |
| 2 | | | | | | | | | |

*Part I (continued): DNA Results for Questioned Item 3*

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®  [        ]          ☐ GlobalFiler™  [        ]          ☐ Investigator® 24plex  [        ]

☐ PowerPlex®  [        ]          Other  [        ]

Report the Probabilistic Genotyping Software Used (if applicable): [                    ]

**Did you perform a differential extraction of Item 3?**   YES ○   NO ○

*Alleles below are sorted in* **Default** *order.*

| ITEM | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|------|---------|---------|--------|---------|--------|---------|
| 3 | | | | | | |
| 3 e | | | | | | |
| 3 sp | | | | | | |
| ITEM | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| 3 | | | | | | |
| 3 e | | | | | | |
| 3 sp | | | | | | |
| ITEM | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| 3 | | | | | | |
| 3 e | | | | | | |
| 3 sp | | | | | | |
| ITEM | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| 3 | | | | | | |
| 3 e | | | | | | |
| 3 sp | | | | | | |
| ITEM | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |
| 3 | | | | | | |
| 3 e | | | | | | |
| 3 sp | | | | | | |

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

☐ YFiler™  [        ]          ☐ PowerPlex® Y  [        ]          Other  [        ]

**Did you perform a differential extraction of Item 3?**   YES ○   NO ○

*Alleles below are sorted in* **Default** *order.*

| ITEM | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|------|----------|-------|--------|----------|-----------|--------|--------|--------|--------|
| 3 | | | | | | | | | |
| 3 e | | | | | | | | | |
| 3 sp | | | | | | | | | |
| ITEM | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| 3 | | | | | | | | | |
| 3 e | | | | | | | | | |
| 3 sp | | | | | | | | | |
| ITEM | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |
| 3 | | | | | | | | | |
| 3 e | | | | | | | | | |
| 3 sp | | | | | | | | | |

*Part I (continued): DNA Results for Questioned Item 4*

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [          ]        ☐ GlobalFiler™ [          ]        ☐ Investigator® 24plex [          ]

☐ PowerPlex® [          ]        Other [          ]

Report the Probabilistic Genotyping Software Used (if applicable): [                    ]

**Did you perform a differential extraction of Item 4?**   YES ○   NO ○

*Alleles below are sorted in* **Default** *order.*

| ITEM | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
|---|---|---|---|---|---|---|
| 4 | | | | | | |
| 4 e | | | | | | |
| 4 sp | | | | | | |
| ITEM | D7S820 | D8S1179 | D10S1248 | D12S391 | D13S317 | D16S539 |
| 4 | | | | | | |
| 4 e | | | | | | |
| 4 sp | | | | | | |
| ITEM | D18S51 | D19S433 | D21S11 | D22S1045 | Amelogenin | CSF1PO |
| 4 | | | | | | |
| 4 e | | | | | | |
| 4 sp | | | | | | |
| ITEM | FGA | Penta D | Penta E | SE33 | TH01 | TPOX |
| 4 | | | | | | |
| 4 e | | | | | | |
| 4 sp | | | | | | |
| ITEM | vWA | DYS391 | DYS570 | DYS576 | Y Indel | |
| 4 | | | | | | |
| 4 e | | | | | | |
| 4 sp | | | | | | |

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

☐ YFiler™ [          ]        ☐ PowerPlex® Y [          ]        Other [          ]

**Did you perform a differential extraction of Item 4?**   YES ○   NO ○

*Alleles below are sorted in* **Default** *order.*

| ITEM | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
|---|---|---|---|---|---|---|---|---|---|
| 4 | | | | | | | | | |
| 4 e | | | | | | | | | |
| 4 sp | | | | | | | | | |
| ITEM | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
| 4 | | | | | | | | | |
| 4 e | | | | | | | | | |
| 4 sp | | | | | | | | | |
| ITEM | DYS518 | DYS533 | DYS549 | DYS570 | DYS576 | DYS627 | DYS635 | DYS643 | Y GATA H4 |
| 4 | | | | | | | | | |
| 4 e | | | | | | | | | |
| 4 sp | | | | | | | | | |

# Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].
- Click "Add Row" to show another row of boxes for entry.

Did you perform a differential extraction of Item 3?   Yes ○   No ○

Did you perform a differential extraction of Item 4?   Yes ○   No ○

| Locus | Item 1 | Item 2 | Item 3 | Item 3e | Item 3sp | Item 4 | Item 4e | Item 4sp |
|-------|--------|--------|--------|---------|----------|--------|---------|----------|
|       |        |        |        |         |          |        |         |          |
|       |        |        |        |         |          |        |         |          |
|       |        |        |        |         |          |        |         |          |
|       |        |        |        |         |          |        |         |          |

# 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)?

|  | Victim (Item 1) | | | Suspect (Item 2) | |
|---|---|---|---|---|---|
|  | Item 3 | Item 4 |  | Item 3 | Item 4 |
| Yes | ○ | ○ | Yes | ○ | ○ |
| No | ○ | ○ | No | ○ | ○ |
| Inconclusive | ○ | ○ | Inconclusive | ○ | ○ |
| No Interpretation | ○ | ○ | No Interpretation | ○ | ○ |

DNA interpretations not reported; samples analyzed for database purposes only: ☐

# Part III: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

*Please note:* Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

# RELEASE OF DATA TO ACCREDITATION BODIES

**The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.**

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

○ This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)

○ This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

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

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

**ANAB** Certificate No.
(Include ASCLD/LAB Certificate here)

**A2LA** Certificate No.

**Step 2: Complete the Laboratory Identifying Information in its entirety**

Authorized Contact Person and Title

Laboratory Name

Location (City/State)