

# VeriFiler™ Express PCR Amplification Kit

**Catalog Numbers** A32014, A32070, A33032

**Pub. No.** 100043593 **Rev.** A

**Note:** For safety and biohazard guidelines, see the “Safety” appendix in the *VeriFiler™ Express PCR Amplification Kit User Guide* (Pub. No. 100043588). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

## Important guidelines

- Thaw reagents completely before first use. To avoid freeze/thaw cycles, store components at 2°C to 8°C after first use.
- Isolate reagents from any source of contaminating DNA, especially from previously amplified PCR products and the VeriFiler™ Express Allelic Ladder.
- The primer set and allelic ladder contain primers that are labeled with light-sensitive dyes. Protect the primer set and allelic ladder from light; do not leave them exposed on the laboratory bench.
- To obtain optimal results, follow the procedures in the *VeriFiler™ Express PCR Amplification Kit User Guide* (Pub. No. 100043588).

## Contents and storage

**Table 1** VeriFiler™ Express PCR Amplification Kit (Cat. No. A32014; 200 reactions)

| Contents  | Amount          | Storage   |
|---|-----------------|---|
| VeriFiler™ Express Master Mix<br>Contains MgCl <sub>2</sub> , dATP, dGTP, dCTP, and dTTP, bovine serum albumin, enzyme, and 0.05% sodium azide in buffer and salt.  | 2 tubes, 1.0 mL | -25°C to -15°C on receipt.<br>2°C to 8°C after first use, for up to 6 months or up to the expiration date stated on the kit (whichever comes first).                                |
| VeriFiler™ Express Primer Set<br>Contains locus-specific 6-FAM™, VIC™, NED™, TAZ™, and SID™ dye-labeled and unlabeled primers in buffer. The primers amplify the STR loci D3S1358, vWA, D16S539, CSF1PO, TPOX, D8S1179, D21S11, D18S51, Penta E, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, D6S1043, D10S1248, D1S1656, D12S391, D2S1338, Penta D, and the sex-determining markers, Y indel and Amelogenin. | 2 tubes, 1.0 mL | -25°C to -15°C on receipt.<br>2°C to 8°C after first use, for up to 6 months or up to the expiration date stated on the kit (whichever comes first).<br>Store protected from light. |

| Contents   | Amount          | Storage  |
|--|-----------------|--|
| <p>VeriFiler™ Express Allelic Ladder</p> <p>Contains the following amplified alleles:</p> <ul style="list-style-type: none"> <li>• 6-FAM™ dye (blue): D3S1358 9–20; vWA 11–24; D16S539 5, 8–15; CSF1PO 6–15; TPOX 5–15.</li> <li>• VIC™ dye (green): Y indel 1, 2; Amelogenin X, Y; D8S1179 5–19; D21S11 24, 24.2, 25–28, 28.2, 29, 29.2, 30, 30.2, 31, 31.2, 32, 32.2, 33, 33.2, 34, 34.2, 35, 35.2, 36–38; D18S51 7, 9, 10, 10.2, 11–13, 13.2, 14, 14.2, 15–27; DYS391 7–13; Penta E 5–26.</li> <li>• NED™ dye (yellow): D2S441 8–11, 11.3, 12–17; D19S433 6–12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2, 18.2, 19.2; TH01 4–9, 9.3, 10, 11, 13.3; FGA 13–26, 26.2, 27–30, 30.2, 31.2, 32.2, 33.2, 42.2, 43.2, 44.2, 45.2, 46.2, 47.2, 48.2, 50.2, 51.2.</li> <li>• TAZ™ dye (red): D22S1045 8–19; D5S818 7–18; D13S317 5–16; D7S820 6–15; D6S1043 9–25.</li> <li>• SID™ dye (purple): D10S1248 8–19; D1S1656 9–14, 14.3, 15, 15.3, 16, 16.3, 17, 17.3, 18.3, 19.3, 20.3; D12S391 14–19, 19.3, 20–27; D2S1338 11–28; Penta D 2.2, 3.2, 5–17.</li> </ul> | 1 tube, 0.05 mL | <p>–25°C to –15°C on receipt.</p> <p>2°C to 8°C after first use, up to the expiration date stated on the kit.</p> <p>Store protected from light.</p> <p><b>IMPORTANT!</b> The allelic ladder contains PCR products. Do not amplify. To avoid contamination, store the allelic ladder separate from the other kit components and unamplified DNA.</p> |
| <p>DNA Control 007</p> <p>Contains 2.0 ng/μL human male genomic DNA in 0.05% sodium azide and buffer.</p> <p>The profile of this male DNA is D3S1358 15,16; vWA 14, 16; D16S539 9, 10; CSF1PO 11,12; TPOX 8; D8S1179 12, 13; D21S11 28, 31; D18S51 12, 15; Penta E 7, 12; D2S441 14,15; D19S433 14,15; TH01 7, 9.3; FGA 24, 26; D22S1045 11, 16; D5S818 11; D13S317 11; D7S820 7,12; D6S1043 12, 14; D10S1248 12, 15; D1S1656 13, 16; D12S391 18, 19; D2S1338 20, 23; Penta D 11, 12.</p>  | 1 tube, 0.05 mL | <p>–25°C to –15°C on receipt.</p> <p>2°C to 8°C after first use, up to the expiration date stated on the kit.</p>  |

## Required materials not supplied

Unless otherwise indicated, all materials are available through [thermofisher.com](http://thermofisher.com).

| Item   | Cat. No.      |
|--|---------------|
| GeneScan™ 600 LIZ™ Size Standard v2.0, 2 tubes, 200 μL each  | 4408399       |
| <b>IMPORTANT!</b> Do not use GeneScan™ 350 ROX™, GeneScan™ 500 ROX™, or GeneScan™ 500 LIZ™ Size Standards with this kit. |               |
| Low-TE buffer (10 mM Tris, 0.1 mM EDTA, pH 8.0)  | Teknova T0223 |

## Performance characteristics

The VeriFiler™ Express kits are developed and manufactured by Thermo Fisher Scientific. We test each lot of kits to ensure that the kits perform according to specifications.

Each Applied Biosystems™ VeriFiler™ Express PCR Amplification Kit contains reagents that are optimized to amplify and type unpurified, unquantified, single-source blood or buccal samples on treated paper, untreated paper, and swab substrates.

Follow the protocol in the *VeriFiler™ Express PCR Amplification Kit User Guide* (Pub. No. 100043588) to collect and analyze data on the instruments and software that is supported for use with this kit.

## Limited product warranty

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**Revision history:** Pub. No. 100043593

| Revision | Date            | Description  |
|----------|-----------------|--------------|
| A        | 04 October 2016 | New document |

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**Corporate entity:** Life Technologies Corporation | Carlsbad, CA 92008 USA | Toll Free in USA 1 800 955 6288

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