

GlobalFiler® Express PCR Amplification Kit (200 Reaction)

Pub. No. 4477603 Rev. C

IMPORTANT! Reagents used for amplification must be isolated from any source of contaminating DNA, especially from previously amplified PCR products and the Allelic Ladders.

Thaw reagents completely before first use. To avoid freeze/thaw cycles, store components at 2 to 8°C after initial use.

The GlobalFiler® Express Primer Set and Allelic Ladder contain primers that are labeled with light-sensitive dyes. Protect the primers and Allelic Ladder from light; do not leave them exposed on the laboratory bench.

To obtain optimal amplification and typing results, follow the procedures in the *GlobalFiler® Express PCR Amplification Kit User Guide* (Pub. no. 4477672).

Table 1 GlobalFiler® Express PCR Amplification Kit (200 Reaction) (Part no. 4476609)

Part	Storage Conditions
GlobalFiler® Express Master Mix, 1 tube, 1.13 mL Contains MgCl ₂ , dATP, dGTP, dCTP, and dTTP, bovine serum albumin, enzyme, and 0.05% sodium azide in buffer and salt.	-15 to -25°C upon receipt. 2 to 8°C after addition of Additive for up to 6 months or the expiration date stated on the kit (whichever comes first).
Master Mix Additive, 1 tube, 0.1 mL Reagent for one-time addition to the GlobalFiler® Express Master Mix following first thaw.	-15 to -25°C upon receipt. Discard the tube after addition to the master mix
GlobalFiler® Express Primer Set, 1 tube, 1.2 mL 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, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338, and the sex-determining markers, Y indel and Amelogenin.	-15 to -25°C upon receipt. 2 to 8°C after initial use for up to 6 months or the expiration date stated on the kit (whichever comes first). Store protected from light.
GlobalFiler® Express Allelic Ladder, 1 tube, 0.065 mL Contains the following amplified alleles: <ul style="list-style-type: none"> 6-FAM™ dye (blue): D3S1358 9–20; vWA 11–24; D16S539 5, 8–15; CSF1PO 6–15; TPOX 5–15. 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. 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. TAZ™ dye (red): D22S1045 8–19; D5S818 7–18; D13S317 5–16; D7S820 6–15; SE33 4.2, 6.3, 8, 9, 11–20, 20.2, 21, 21.2, 22.2, 23.2, 24.2, 25.2, 26.2, 27.2, 28.2, 29.2, 30.2, 31.2, 32.2, 33.2, 34.2, 35, 35.2, 36, 37. 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. 	-15 to -25°C upon receipt. 2 to 8°C after initial use up to the expiration date stated on the kit. Store protected from light. IMPORTANT! 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.
DNA Control 007, 1 tube, 0.05 mL Contains 2 ng/μL human male genomic DNA in 0.05% sodium azide and buffer. The profile of this male DNA is D3S1358 15, 16; vWA 14, 16, D16S539 9, 10; CSF1PO 11, 12; TPOX 8; Y indel 2; Amelogenin X, Y; D8S1179 12, 13; D21S11 28, 31; D18S51 12, 15; DYS391 11; D2S441 14, 15; D19S433 14, 15; TH01 7, 9.3; FGA 24, 26; D22S1045 11, 16; D5S818 11; D13S317 11 D7S820 7, 12; SE33 17, 25.2; D10S1248 12, 15; D1S1656 13, 16; D12S391 18, 19 D2S1338 20, 23.	-15 to -25°C upon receipt. 2 to 8°C after initial use up to the expiration date stated on the kit.

For Forensic or Paternity Use Only.

Note: For safety and biohazard guidelines, refer to the “Safety” section in the *GlobalFiler® Express PCR Amplification Kit User Guide* (Pub. no. 4477672). For every chemical, read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Table 2 Materials required but not included in the kit

Part no.	Part
4408399	GeneScan™ 600 LIZ® Size Standard v2.0, 2 tubes, 200 µL each IMPORTANT! Do not use GeneScan™ 350 ROX™, GeneScan™ 500 ROX™ or GeneScan™ 500 LIZ® Size Standards with the GlobalFiler® Express PCR Amplification Kit (200 Reaction).
4467079	Prep-n-Go™ Buffer (for use with untreated paper substrates)
4471406	Prep-n-Go™ Buffer (for use with buccal swab substrates)
4477672	<i>GlobalFiler® Express PCR Amplification Kit User Guide</i>

Performance Characteristics

The GlobalFiler® Express Kits are developed and manufactured by Life Technologies Corporation. We test each lot of kits to ensure that the kits perform according to specifications.

Each GlobalFiler® Express PCR Amplification Kit contains reagents 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 *GlobalFiler® Express PCR Amplification Kit User Guide* to collect and analyze data on the instruments and software supported for use with this kit.

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

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