

AmpF ℓ STR™ Identifiler™ PCR Amplification Kit (200 reactions)

Catalog Number 4322288

Pub. No. 4322638 Rev. L

Note: For safety and biohazard guidelines, see the “Safety” appendix in the *AmpF ℓ STR™ Identifiler™ PCR Amplification Kit User Guide* (Pub. No. 4323291). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

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

Thaw reaction mix, primer set, control DNA, and allelic ladder completely before first use. To avoid freeze/thaw cycles, store these components at 2 to 8°C after initial use. Store enzyme at –15 to –25°C.

The AmpF ℓ STR™ Identifiler™ 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 *AmpF ℓ STR™ Identifiler™ PCR Amplification Kit User Guide* (Pub. No. 4323291).

Contents and storage

Cat. No.	Contents	Quantity	Storage conditions
361680	AmpF ℓ STR™ PCR Reaction Mix Contains MgCl ₂ , dATP, dGTP, dCTP, and dTTP, bovine serum albumin, and 0.05% sodium azide in buffer and salt.	2 tubes, 1.1 mL/tube	–15 to –25°C upon receipt. 2 to 8°C after initial use.
361676	AmpF ℓ STR™ Control DNA 9947A, Contains 0.1 ng/μL human cell line DNA in 0.05% sodium azide and buffer. The profile of this female DNA is CSF1PO 10, 12; D2S1338 19, 23; D3S1358 14, 15; D5S818 11, 11; D7S820 10, 11; D8S1179 13, 13; D13S317 11, 11; D16S539 11, 12; D18S51 15, 19; D19S433 14, 15; D21S11 30, 30; FGA 23, 24; TH01 8, 9.3; TPOX 8, 8; vWA 17,18.	1 tube, 0.3 mL	
4322292	AmpF ℓ STR™ Identifiler™ Primer Set Contains locus-specific 6-FAM™, VIC™, NED™, and PET™ dye-labeled and unlabeled primers in buffer. The primers amplify the STR loci CSF1PO, D2S1338, D3S1358, D5S818, D7S820, D8S1179, D13S317, D16S539, D18S51, D19S433, D21S11, FGA, TH01, TPOX, vWA, and the gender marker Amelogenin.	1 tube, 1.1 mL	–15 to –25°C upon receipt. 2 to 8°C after initial use. Store protected from light.
4373672	AmpF ℓ STR™ Identifiler™ Allelic Ladder Contains the following amplified alleles: <ul style="list-style-type: none"> 6-FAM™ dye (blue): D8S1179 8–19; 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; D7S820 6–15; CSF1PO 6–15. VIC™ dye (green): D3S1358 12–19; TH01 4–9, 9.3, 10, 11, 13.3; D13S317 8–15; D16S539 5, 8–15; D2S1338 15–28. NED™ dye (yellow): D19S433 9–12, 12.2, 13, 13.2, 14, 14.2, 15, 15.2, 16, 16.2, 17, 17.2; vWA 11–24; TPOX 6–13; D18S51 7, 9, 10, 10.2, 11–13, 13.2, 14, 14.2, 15–27. PET™ dye (red): Amelogenin X and Y; D5S818 7–16; FGA 17–26, 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. 	1 tube, 0.05 mL	–15 to –25°C upon receipt. 2 to 8°C after initial use. 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.
4385214	AmpliAq Gold™ DNA Polymerase, enzyme activity 5 U/μL	2 tubes, 0.05 mL/tube	–15 to –25°C.

Materials required but not supplied

Cat. No.	Component
4322682 or 4408399	GeneScan™ 500 LIZ™ Size Standard, 2 tubes, 200 µL each or GeneScan™ 600 LIZ™ Size Standard v2.0, 2 tubes, 200 µL each
4323291	<i>AmpFℓSTR™ Identifiler™ PCR Amplification Kit User Guide</i>

Performance characteristics

The AmpFℓSTR™ Kits are developed and manufactured by Thermo Fisher Scientific. We test each lot of kits to ensure that the kits perform according to specifications and are free from interfering contaminants.

Each AmpFℓSTR™ Identifiler™ PCR Amplification Kit contains reagents optimized to amplify and type 1 ng of AmpFℓSTR™ Control DNA 9947A.

The recommended range of input sample DNA is approximately 0.5 to 1.25 ng of human DNA. However, we have successfully typed samples containing less than 0.5 ng of human DNA.

Follow the protocol in the *AmpFℓSTR™ Identifiler™ PCR Amplification Kit User Guide* to collect and analyze data on the instruments and software supported for use with this kit.

Limited product warranty

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Revision history: Pub. No. 4322638

Revision	Date	Description
L	19 October 2018	Updated branding and trademarks, no technical changes.
K	August 2012	Basis for this revision.

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