

# AmpF $\ell$ STR™ MiniFiler™ PCR Amplification Kit

Catalog Number 4373872

Pub. No. 4373870 Rev. H

**Note:** For safety and biohazard guidelines, see the “Safety” appendix in the *AmpF $\ell$ STR™ MiniFiler™ PCR Amplification Kit User Guide* (Pub. No. 4374618). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

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

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

The AmpF $\ell$ STR™ MiniFiler™ 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 $\ell$ STR™ MiniFiler™ PCR Amplification Kit User Guide* (Pub. No. 4374618).

## Contents and storage

Cat. No.	Contents	Quantity	Storage conditions
4373887	AmpF $\ell$ STR™ MiniFiler™ Master Mix Contains enzyme, salts, dNTPs, carrier protein, and 0.05% sodium azide.	2 tubes, 0.5 mL/tube	-15 to -25°C upon receipt. 2 to 8°C after initial use.
4307984	AmpF $\ell$ STR™ Control DNA 007, Contains 0.10 ng/μL human male genomic DNA in 0.05% sodium azide and buffer. The profile of this male DNA is D13S317 11, 11; D7S820 7, 12; Amelogenin X, Y; D2S1338 20, 23; D21S11 28, 31; D16S539 9, 10; D18S51 12, 15; CSF1PO 11, 12; FGA 24, 26.	1 tube, 0.3 mL	
4373885	AmpF $\ell$ STR™ MiniFiler™ Primer Set Contains locus-specific 6-FAM™, VIC™, NED™, and PET™ dye-labeled and unlabeled primers in buffer. The primers amplify the STR loci D13S317, D7S820, D2S1338, D21S11, D16S539, D18S51, CSF1PO, FGA, and the gender marker Amelogenin.	1 tube, 0.5 mL	-15 to -25°C upon receipt. 2 to 8°C after initial use. Store protected from light.
4373876	AmpF $\ell$ STR™ MiniFiler™ Allelic Ladder Contains the following amplified alleles: <ul style="list-style-type: none"> <li>6-FAM™ dye (blue): D13S317 8–15; D7S820 6–15.</li> <li>VIC™ dye (green): Amelogenin X, Y; D2S1338 15–28, 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.</li> <li>NED™ dye (yellow): D16S539 5, 8–15; D18S51 7, 9, 10, 10.2, 11–13, 13.2, 14, 14.2, 15–27.</li> <li>PET™ dye (red): CSF1PO 6–15; 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.</li> </ul>	1 tube, 0.05 mL	-15 to -25°C upon receipt. 2 to 8°C after initial use. Store protected from light. <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.

## 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
4374618	<i>AmpFℓSTR™ MiniFiler™ 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™ MiniFiler™ PCR Amplification Kit contains reagents that are optimized to amplify and type 0.5 ng of AmpFℓSTR™ Control DNA 007.

The recommended range of input sample DNA is approximately 0.5 ng to 1.0 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™ MiniFiler™ PCR Amplification Kit User Guide* to collect and analyze data on the instruments and software 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 at [www.thermofisher.com/us/en/home/global/terms-and-conditions.html](http://www.thermofisher.com/us/en/home/global/terms-and-conditions.html). If you have any questions, please contact Life Technologies at [www.thermofisher.com/support](http://www.thermofisher.com/support).



Life Technologies Ltd | 7 Kingsland Grange | Woolston, Warrington WA1 4SR | United Kingdom

For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](http://thermofisher.com/symbols-definition).

The information in this guide is subject to change without notice.

**DISCLAIMER:** TO THE EXTENT ALLOWED BY LAW, THERMO FISHER SCIENTIFIC INC. AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

**Revision history:** Pub. No. 4373870

Revision	Date	Description
H	22 October 2018	Updated branding and trademarks, no technical changes.
G	August 2012	Basis for this revision.

**Important Licensing Information:** These products may be covered by one or more Limited Use Label Licenses. By use of these products, you accept the terms and conditions of all applicable Limited Use Label Licenses.

©2018 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.