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GlobalFiler™ PCR Amplification Kit

The GlobalFiler PCR Amplification Kit is the first 6-dye, 24-locus STR kit that combines maximum compatibility with global databasing [Read more](#)

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Catalog Number	No. of Reactions
4476135	200 Reactions
4482815	1000 Reactions

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Catalog number 4476135

Price (MDL) / Each

-

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No. of Reactions:

200 Reactions

Product Overview

[Figures](#)

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The GlobalFiler PCR Amplification Kit is the first 6-dye, 24-locus STR kit that combines maximum compatibility with global databasing loci standards, with dramatically reduced amplification time and superior discrimination power, helping to enable forensic DNA labs worldwide to maximize information recovery and improve overall efficiency. The GlobalFiler kit is part of a fully integrated and validated forensic DNA workflow backed by best-in-class global training, service, and support. This kit is optimized for casework samples and is also available in [a format containing an internal quality control \(IQC\) system](#), helping forensic DNA labs worldwide maximize information recovery and improve overall efficiency. For database and single-source samples, please see our [GlobalFiler Express PCR Amplification Kit](#).

Key Features:

- Efficient protocols minimize amplification time compared to previous-generation kits
- An optimized buffer system and expanded DNA input volume delivers maximum sensitivity for trace/low level DNA samples
- Enhanced intracolor balance simplifies interpretation of mixture samples
- The inclusion of 10 mini-STRs maximizes results from degraded samples
- The only kit with all markers recommended for inclusion by the CODIS Core Loci Working Group, including all markers commonly used in Europe, for maximum global database compatibility

The GlobalFiler kit is a robust and reliable single-amplification STR multiplex kit optimized for use with the most challenging casework samples. The kit leverages new dyes for the incorporation of additional markers, generating the most discriminating kit available to the forensic community. The kit contains all of the markers included in the major global databases, including 10 mini-STRs, designed to deliver optimized results with even highly degraded samples.

Developed specifically for casework applications, the GlobalFiler kit contains a buffer system that delivers greater sensitivity for enhanced performance with inhibited and low-concentration DNA samples. The GlobalFiler kit utilizes the latest advances in oligo synthesis and purification, which provide a clean baseline and a balanced profile, resulting in simplified data analysis. Maintenance of the NGM SElect and Identifiler primer sequences helps ensure maximum concordance with previously typed samples. In addition, multiple gender markers have been added to the multiplex to enable accurate typing of male samples, even highly degraded or Y-negative samples, while increased genotyping accuracy is obtained with the expansion of the allelic ladder allele ranges to include all rare alleles as described in the literature (STRbase).

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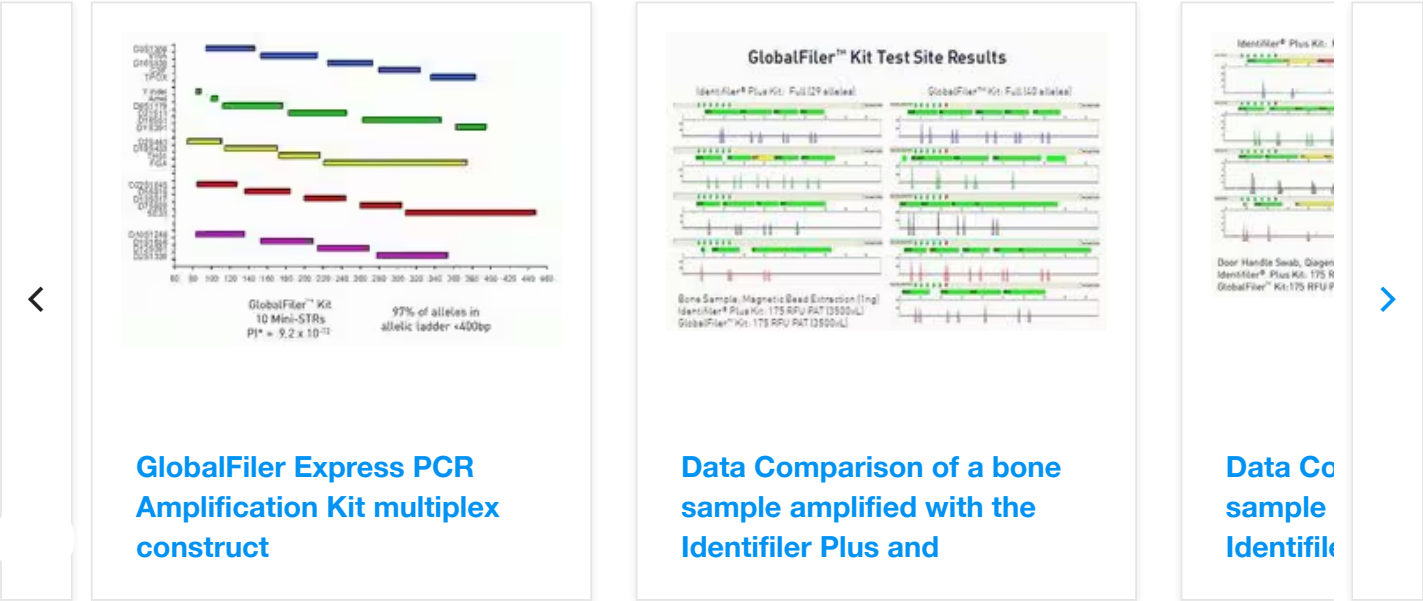


to answer your technical questions, review data, and make recommendations on how to perform assays and troubleshoot results. All of these resources help ensure success when using Applied Biosystems human identification solutions in your laboratory.

For licensing and limited use restrictions visit thermofisher.com/HIDlicensing.

Specifications	
Detection Method	Primer-probe
GC-Rich PCR Performance	High
Reaction Speed	Standard
Product Line	GlobalFiler™
Product Type	PCR Amplification Kit
Quantity	200 reactions
For Use With (Application)	Real Time PCR (qPCR)
No. of Reactions	200 Reactions
Unit Size	Each

Figures



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Certificates

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Lot #	Certificate Type	Date	Catalog Number(s)
2501170	Certificate of Analysis	May 27, 2025	4476135
2411077	Certificate of Analysis	May 27, 2025	4482815
2504079	Certificate of Analysis	May 14, 2025	4482815
2504173	Certificate of Analysis	May 12, 2025	4476135
2502172	Certificate of Analysis	Mar 18, 2025	4476135

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Safety Data Sheets



Product Information

Manuals



- [Quick Reference: GlobalFiler and GlobalFiler IQC PCR Amplification Kits - PCR and CE](#)
- [Quick Reference: GlobalFiler and GlobalFiler IQC PCR Amplification Kits - PCR Setup](#)
- [User Guide: GlobalFiler and GlobalFiler IQC PCR Amplification Kits](#)

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Scientific Resources

Reference Materials



-  [Validation Certificate: HID NIMBUS Presto QNA System](#)
-  [Customer Profile: Capillary electrophoresis and next-generation sequencing applications in forensic DNA analysis](#)
-  [Presentation: Improved CE STR analysis for expanded multiplex kits](#)
-  [SWGDA Validation Certificate: GlobalFiler kits](#)

Brochures



-  [Brochure: GlobalFiler PCR amplification kits](#)
-  [Technical Note: Direct amplification of reference samples using the GlobalFiler PCR Amplification Kit](#)

Technical Notes



-  [Technical Note: Updated Recommendations for Handling STR PCR Amplification Kits](#)
-  [Technical Note: Artifacts Identified Post-Developmental Validation: GlobalFiler and GlobalFiler IQC PCR Amplification Kits](#)

Application Notes



-  [Application Note: Get more answers from challenging bone samples using the latest tools in forensic DNA analysis](#)

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