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GlobalFiler™ IQC PCR Amplification Kit

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

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Catalog Number	Quantity
A43565	200 reactions

Catalog number A43565	
Price (MDL)	

Product Overview

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Documents

The GlobalFiler IQC PCR Amplification Kit is a 6-dye, 24-locus STR kit that combines maximum compatibility with global databasing loci standards. It provides superior discrimination power and an internal quality control (IQC) system, helping forensic DNA labs worldwide maximize information recovery and improve overall efficiency. The GlobalFiler IQC kit was specifically developed to maintain the performance and core marker set of the GlobalFiler kit while enabling an assessment of sample quality in the STR profile. It 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; for database and single-source samples, please see our GlobalFiler Express PCR Amplification Kit.

Features of the GlobalFiler IQC PCR Amplification Kit include:

- Internal quality control (IQC) system enables detection of and discrimination between amplification inhibition and DNA sample degradation and an in-sample positive amplification control, providing actionable information
- 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 (<220 bp)
- Contains all markers recommended for inclusion by the CODIS Core Loci Working Group, including all markers commonly used in Europe, for maximum global database compatibility
- Improved data interpretation with reduced pull-up edits and off-scale data recovery when combined with 3500 Data Collection Software v4.0 and GeneMapper ID-X Software 1.6
- Manufactured to ISO 18385 standards

The GlobalFiler IQC kit is a robust and reliable single-amplification STR multiplex kit optimized for use with the most challenging casework samples. The kit leverages six dyes for the incorporation of additional markers, generating a highly discriminating kit for use by the forensic community. The kit contains all of the markers included in the major global databases, including 10 mini-STRs, to help 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 addition of the IQC provides more insight into sample quality to assist in distinguishing between inhibition and degradation while also providing a positive control for amplification. The GlobalFiler IQC 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, the GlobalFiler IQC kit contains multiple gender markers 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).

Experience matters

Thermo Fisher Scientific designs and validates its reagents, instruments, and data analysis software together as an integrated system for DNA testing. Technical service scientists and field application specialists are available 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.

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Product Type	PCR Amplification Kit
Quantity	200 reactions
Shipping Condition	Dry Ice
Target Loci	Amelogenin, CSF1PO, D10S1248, D12S391, D13S317, D16S539, D18S51, D19S433, D1S1656, D21S11, D22S1045, D2S1338, D2S441, D3S1358, D5S818, D7S820, D8S1179, DYS391, FGA, IQC-Large, IQC-Small, SE33, TH01, TPOX, Y indel, vWA
Label or Dye	6-FAM, LIZ, NED, SID, TAZ, VIC
Unit Size	Each

Contents & Storage

Store at -15° to -25°C upon receipt, and 2° to 8°C after initial use for up to 6 months.



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Safety Data Sheets



Scientific Resources





- Reference Materials**
- [Validation Certificate: HID NIMBUS Presto QNA System](#)
- [Validation Certificate: GlobalFiler IQC 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: Improve interpretation results from bone samples](#)



Product Information

Manuals



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