Product Description:

The AccuStart Long Range SuperMix is a 4x, ready-to-use solution that contains all the components for long-range target amplifications, including a blend of two hot-start thermostable DNA polymerases (one with strong proof-reading activity) and an optimized buffer to ensure high efficiency, sensitivity and specificity for amplification of long-range targets. This mix enables routine and easy amplification of up to 24kb target from human genomic DNA with high accuracy (>10-fold better fidelity than Taq) and accommodates targets with broad GC-content (no separate GC buffer needed). Fast cycling conditions (≥2 kb/min) can be implemented for extremely long targets. This product is also capable of amplifying multiple targets simultaneously – up to 6 targets up to 6 kb each.

Component Part Numbers:

84639 AccuStart Long Range SuperMix 1.25 mL

Product Specifications:

<table>
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<tr>
<th>Assay</th>
<th>Long Range PCR Master Mix Functional Assay</th>
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<td>Result</td>
<td>Pass</td>
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Quality Control Analysis and Specifications:

The functionality of the AccuStart Long Range SuperMix is evaluated in a PCR reaction to produce a major band of amplification for targets at 24 kb, 17.5 kb and 8.5 kb from 5 ng of Human Genomic DNA.

Notes:
Enzyme components were tested prior to formulation of the master mix and found free of contaminating endonucleases and exonucleases. Enzyme purity was >99% as determined by SDS-PAGE and negligible E.coli genomic DNA contamination was confirmed by qPCR. Specific activity was verified for each enzyme pre-formulation.

Limitations of Use
Quantabio and Ultraplex are registered trademarks of QIAGEN Beverly, Inc. Quanta Biosciences, qScript, Geltrack, ToughMix, PerfeCta, and Fastmix are registered trademarks of Quanta BioSciences Inc. Extracta, AccuStart, AccuMelt, and Accuvue are trademarks of Quanta BioSciences Inc. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact QIAGEN-Beverly for more information.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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