

Product Information	
<b>Perfecta® PreAmp SuperMix</b>	
<b>Part Number</b>	95146-040
<b>Number of Reactions</b>	40 Reactions
<b>Reaction Size</b>	50 µL
<b>Storage Temperature</b>	-25°C to -15°C
<b>Lot Number</b>	66224851
<b>Reference Number</b>	081822
<b>Expiration Date</b>	08/31/2025

**Product Description:**

Perfecta PreAmp SuperMix is a 5X concentrated, ready-to-use reaction cocktail for unbiased, selected enrichment of target sequences from limiting amounts of starting material for downstream gene expression profiling or targeted re-sequencing. It contains all components, except primers and templates. The 5X concentrated Master Mix allows addition of higher template volumes when working with low concentration samples, and/or reduced reaction volumes. Inclusion of an inert light blue tracer dye helps visualize small reaction volumes and ensure accurate pipetting.

**Component Part Numbers:**

84262 Perfecta PreAmp SuperMix 0.40mL

Product Specifications			
95146			
Assay	Pre-amplification Functional Assay	DNase	RNase
<b>Result</b>	Pass	Pass	Pass

**Quality Control Analysis and Specifications:**

**Pre-amplification Functional Assay:** 10 ng (total 08RNA equivalent) of cDNA prepared from Human Universal Reference total RNA is used as template for a 96-plex pre-amplification reaction. Pre-amplifications are performed in triplicate for both 10 and 14 cycles. Each of the 96 individual assays are then assayed by SYBR Green qPCR using input amounts of pre-amplified cDNA normalized to 4 ng of the original cDNA. Cq values for each assay are compared to control qPCRs from 4 ng of the original cDNA.

- >90% of assays are within +/- 1.5 ΔΔCq
- Correlation of Cq values between cDNA and pre-amplified cDNA should be 0.97 for at least 95% of the assays
- Correlation of Cq values between cDNA pre-amplified for 10 cycles and 14 cycles should be 0.97 for >95% of the assays
- The mean difference in Cq between replicate pre-amplified cDNA samples should be between +/- 1.0

**Nuclease Assay:**

**DNase:** Detectable DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation with 1X PreAmplification Master Mix solution at 37°C.

**RNase:** Detectable RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation with 1X PreAmplification Master Mix solution at 37°C.

**Limitations of Use**

QuantaBio and Ultrplex 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.