

Human Esophageal Smooth Muscle Cell cDNA [HESMC cDNA] Catalog number: 2714

## **Product Information**

Quantity:Approximately 20 reactionsVolume:20 μlStorage condition:Store at -20°C

## **Product Description**

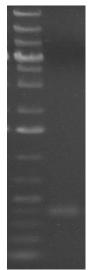
ScienCell Research Laboratories' PCR-ready first strand cDNA is prepared from RNA extracted from normal human primary cells by Qiagen RNeasy kits. 20  $\mu$ g of total RNA is reverse-transcribed in 200  $\mu$ l final volume using Applied Biosystems' High-Capacity cDNA Reverse Transcription kits. 1  $\mu$ l cDNA is sufficient for one PCR reaction.

## **Quality Control**

- The A<sub>260</sub>/A<sub>280</sub> ratio of the cDNA is measured to be ~1.8 using Beckman Coulter DU 800 spectrophotometer.
- The cDNA is performance-tested in a control polymerase chain reaction (PCR) using primers of beta-actin. Gel electrophoresis analysis of the PCR products is performed in 1% (w/v) agarose gel with GeneRuler<sup>TM</sup> 1kb Plus DNA Ladder, one major band of around 400 bp can be observed.

## Application

- Immediate PCR amplification of known genes
- Comparison of gene expression patterns between biological samples
- Gene mutation analysis
- Analysis of mRNA alternative splicing
- Gene cloning and target sequencing



QC electrophoresis gel