Applied StemCell, Inc.
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Datasheet

# Human Skin Cells (Dermal Fibroblasts) cDNA (Ps)

## Product Information

**Catalog Number** **ASD-9035**

**Description** Applied StemCell's cDNA is synthesized from a highly pure and intact total RNA that was isolated via a modified guanidine thiocyanate technique and devoid of genomic DNA contamination. Five ug of total RNA was reverse transcribed into a single strand cDNA using oligo–dT primer in 20 mL total volume. RT reaction was stopped by heating at 85°C for 5 minutes. Using 1 µl of cDNA per PCR reaction is sufficient for 20 typical PCRs. Applied StemCell's cDNA can be used in gene expression and cloning studies, analysis of mRNA alternative splicing, gene mutation analysis and other molecular biology fields.

**Quantity** 20 reactions

**Origin** Human, single donor

**Development Period** Postnatal

**Disease State** Psoriasis (Ps)

**Test Conditions** Quality of RNA used in cDNA synthesis is determined visually, analyzing 18S and 28S ribosomal bands by non-denaturing agarose gel electrophoresis. The RNA purity level is determined by spectrophotometry to obtain the A260/A280 ratio, which must range from 1.8-2.1. The RNA used in cDNA synthesis is treated with RNase-free DNase to remove any genomic DNA and is tested as DNA free by RT-PCR. The cDNA functionality is assayed by RT-PCR using primers for housekeeping gene GAPDH.

**Handling Instructions** cDNA products are sensitive to degradation by temperature changes or exogenous ribonucleases that result during the handling processes. Must wear gloves at all times when handling cDNA. All reagents used, tubes, and barrier pipettes must be RNAase-free.

For thawing cDNA: place tube in ice and thaw to completion. Vortex tube for a few seconds and spin down RNA quickly and place in ice once again. To minimize freeze-thaw cycles (< 3), aliquot cDNA as desired.

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| **Storage Conditions** | Store cDNA at -80°C. Can be stored at -20°C for short term in a frost-free freezer. Avoid multiple freeze-thaw cycles. To prevent any possible RNAase contamination, always wear gloves when handling RNA. For maximum recovery of product, centrifuge the original vial after thawing and before removing the cap. |
| **Storage Solution** | Solution of cDNA in a 5mM Mg2+ and Tris containing 1X RT buffer. |
| **Warranty** | Applied StemCell is committed to providing only superior-quality research products. Our products are specifically intended for research purposes only and are guaranteed to perform according to documented product specifications. Full warranty information for the products may be requested from our technical support or sales team at the numbers provided below. |
| **Product Use/ Safety Statement** | cDNA PRODUCT IS FOR RESEARCH USE ONLY. Not approved for human or veterinary use, in vitro diagnostics, or clinical procedures. |
| **WARNING** | The accompanying product contains human source material. Treat as potentially infectious. All donors are tested for the presence of HIV-1, HIV-2, Hepatitis B virus, and Hepatitis C virus. |

## References

1. Chomczynski et al. (1987). Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. Analytical Biochemistry. 162: 156–159.