GeNei™ One Step RT PCR Kits

Description: **GeNei**™ One Step RT PCR Kit provides specific, sensitive and easy to use system for the detection and analysis of RNA. By using this convenient one step formulation, one can perform both cDNA synthesis and PCR amplification in a single tube, using gene specific primers and target RNA's from either total RNA or mRNA. The system uses a mixture of Reverse transcriptase, **GeNei**™ Hotstart Taq DNA Polymerase and a high fidelity enzyme in an optimized (single) reaction buffer.

Ordering Information:

Product	Size	Cat #
GeNei™ One Step AMV RT-PCR kit (5 reactions)	1 Pack	107551
GeNei™ One Step AMV RT-PCR kit (25 reactions)	1 Pack	107552
GeNei™ One Step AMV RT-PCR kit (100 reactions)	1 Pack	107553
GeNei™ One Step M-MuLV RT-PCR kit (5 reactions)	1 Pack	107554
GeNei™ One Step M-MuLV RT-PCR kit (25 reactions)	1 Pack	107555
GeNei™ One Step M-MuLV RT-PCR kit (100 reactions)	1 Pack	107556

Applications:

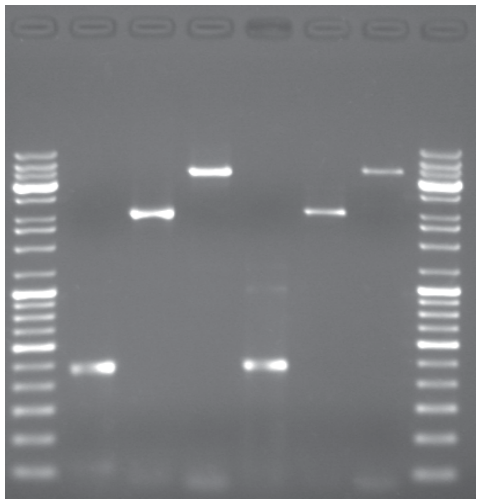
- Analysis of Gene expression
- Detection of rare and viral RNA
- Characterization of RNA specific variants

Highlights:

- Hotstart format for higher sensitivity, specificity and yield.
- Yields product with high fidelity for cloning and sequencing.
- Fast and easy screening of gene expression.
- Lower risk of sample cross contamination aids in simultaneous analysis of multiple samples.
- Reduced reaction variability.
- Less hands on time.

Materials provided:

1. **GeNei™** RT-PCR Enzyme mix
2. **GeNei™** 2X RT-PCR reaction mixture
3. RNasin
4. Water (Protease, DNase and RNase free)
5. Instruction Manual



RT PCR Amplified Products analysed on 1% Agarose gel

RT PCR performed with **GeNei**™ One Step AMV RT-PCR kit

R. **GeNei**™ **Medium Range DNA Ruler**

1. **484 bp fragments of P^{53} gene from Human Placental RNA (1 µg)**
2. **2.1 kb fragment of polE gene from HeLa RNA (100 ng)**
3. **3.4 kb fragment of polE gene from HeLa RNA (100 ng)**

RT PCR performed with **GeNei**™ One Step M-MuLV RT-PCR kit

4. **484 bp fragments of P^{53} gene from Human Placental RNA (1 µg)**
5. **2.1 kb fragment of polE gene from HeLa RNA (100 ng)**
6. **3.4 kb fragment of polE gene from HeLa RNA (100 ng)**