

**GeNei™ Student RT PCR Teaching Kit**

**Description:**

Reverse transcription polymerase chain reaction or RT-PCR is a modification of polymerase chain reaction for amplifying data contained in a RNA by converting it to a complementary DNA and then amplifying it. The key to forming cDNA is the reverse transcriptase enzyme which uses an oligo dT or a random hexamer to synthesize cDNA also called "first strand reaction". Taq DNA polymerase then amplifies the cDNA using gene specific primers, this reaction is called "second strand reaction".

The kit provides enough components to carry out 20 reactions of RT-PCR along with 5 negative controls.

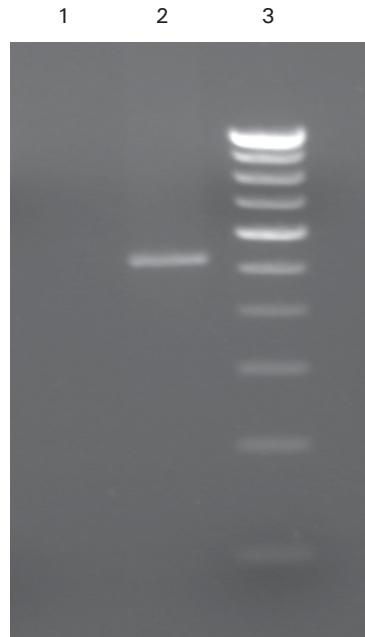
**Ordering Information:**

Product	Size	Cat #
<b>GeNei™</b> Student RT PCR Teaching Kit (Consumables for 5 experiments - 4 reactions each & Elpho Kit (Cat # 107070))	1 Pack	107754
<b>GeNei™</b> Student RT PCR Teaching Kit (Consumables for 5 experiments - 4 reactions each)	1 Pack	107755

**Materials Provided:**

- Total RNA
- Oligo dT
- RT mix
- RNasin
- M-MuLV Reverse Transcriptase
- PCR mix
- Taq DNA Polymease
- Nuclease free water
- 100 bp DNA Ladder (Ready to use)
- PCR vials
- Gel Loading Buffer
- Agarose
- 50X TAE
- Instruction manual

**Note:** UV transilluminator, thermal cycler and EtBr are required.



Lane1 : Negative Control  
 Lane2 : Positive Control  
 Lane3 : 100 bp DNA Ladder

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