

Bioneer

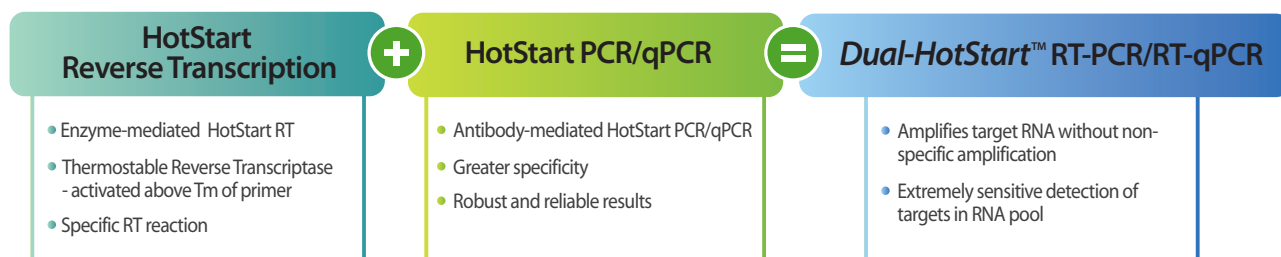
Healthier Future for
Humanity with
Genomic Technology

**Visualize your invisible RNA targets
with the most sensitive RNA detection reagents !**

AccuPower® Dual-HotStart™ RT-PCR PreMix

AccuPower® Dual-HotStart™ RT-qPCR PreMix

Bioneer's one-step RT-PCR and RT-qPCR reagents detect low copy RNA targets by adopting the patented *Dual-HotStart™* technology that enhances the specificity and sensitivity.



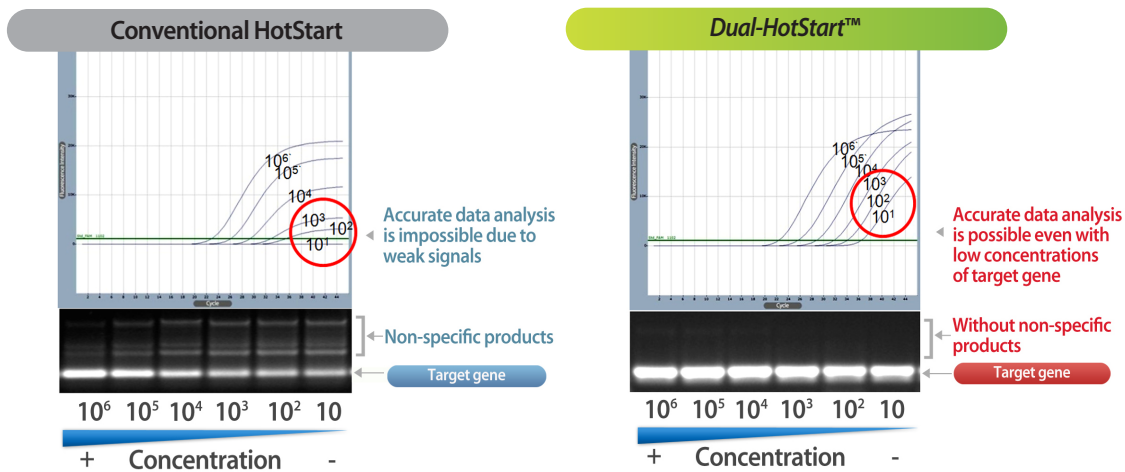
What is *Dual-HotStart™* technology?

Dual-HotStart™ technology is a method to detect RNA target from complex mixture of RNA samples with high sensitivity and specificity. Utilizing Bioneer's patented HotStart method for both reverse transcription and PCR amplification, *Dual-HotStart™* technology-applied products eliminate non-specific cDNA synthesis and non-specific DNA amplification, which enable the most sensitive one-step RT-PCR, multiplex RT-PCR and RT-qPCR assays.

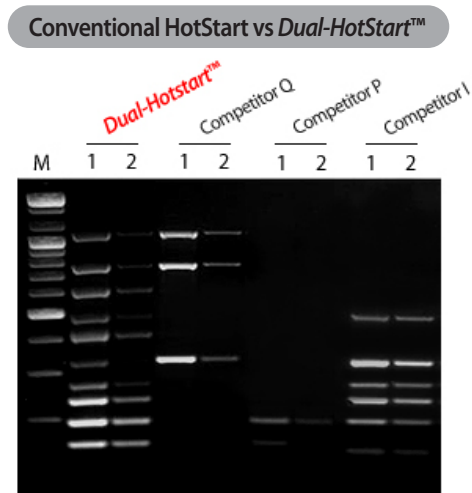
- (right) HotStart RT efficiently blocks non-specific cDNA synthesis by removal of RNA self priming.

- (a) Perfectly matched oligonucleotide
- (b) 9-base mismatched oligonucleotide
- (c) 6-base mismatched oligonucleotide
- (d) 3'-1-base mismatched oligonucleotide
- (e) 3'-3-base mismatched oligonucleotide
- (f) 5'-6-base mismatched oligonucleotide

Dual-HotStart™ enables to detect low copy targets from bunch of RNA by removing non-specific cDNA synthesis and amplification. ●●●

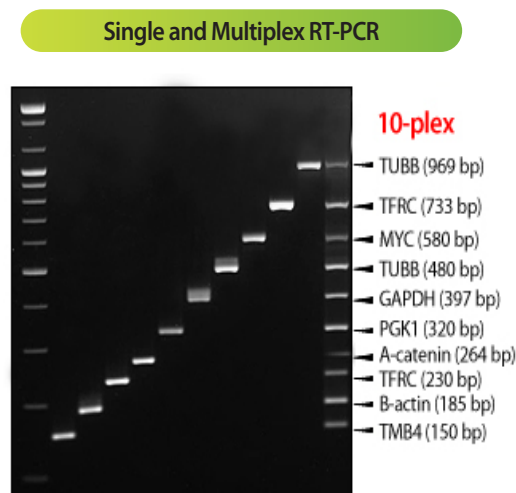


Dual-HotStart™ Multiplex RT-PCR amplifies more than 10 targets in one reaction. ●●●



For the comparison of amplification quality, 10-plex primers were added into Dual-Hotstart™ kit and other supplier's RT-PCR kit.

Lane 1: Human total RNA 100 ng Lane 2: Human total RNA 10 ng



Single RT-PCR and multiplex RT-PCR using AccuPower® Dual-Hotstart™ Multiplex RT-PCR PreMix.

Features and Benefits

- **High Sensitivity:** You can get great result with up to 10 copies of the RNA target.
- **High Specificity:** *Dual-HotStart™* RT-PCR & RT-qPCR method increases specificity, which enable the multiplex RNA amplification without nonspecific amplification.
- **Wide Applications:** *Dual-HotStart™* products are utilized in many different applications including conventional RT-PCR and multiplex RT-PCR for NGS sample prep, providing accurate results with complex template RNAs from various samples such as blood, tissue, cell etc.
- **Ease-of-use:** Just add template RNA, primers & probe and DEPC distilled water in the kit.
- **Reproducibility:** Produced in large batch under ISO 9001 Quality Assurance System, *AccuPower®* products give you great satisfaction with uniform amplification in every reaction tube.

Ordering Information

Cat. no.	Product Name
K-6710	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix, 20 µl /rxn x 96 rxns
K-6711	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix, 50 µl /rxn x 96 rxns
K-6712	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix, 20 µl /rxn x 480 rxns
K-6713	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix, 50 µl /rxn x 480 rxns
K-6714	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix (with UDG), 20 µl /rxn x 96 rxns
K-6715	<i>AccuPower® Dual-HotStart™</i> RT-PCR PreMix (with UDG), 50 µl /rxn x 96 rxns
K-6716	<i>AccuPower® Dual-HotStart™</i> Multiplex RT-PCR PreMix, 20 µl/rxn x 96 rxns
K-6717	<i>AccuPower® Dual-HotStart™</i> Multiplex RT-PCR PreMix, 50 µl/rxn x 96 rxns
K-6718	<i>AccuPower® Dual-HotStart™</i> Multiplex RT-PCR PreMix, 20 µl/rxn x 480 rxns
K-6719	<i>AccuPower® Dual-HotStart™</i> Multiplex RT-PCR PreMix, 50 µl/rxn x 480 rxns
K-6400	<i>AccuPower® GreenStar™</i> RT-qPCR PreMix, 50 µl/rxn x 96 rxns
K-6403	<i>AccuPower® GreenStar™</i> RT-qPCR Master Mix (2X), 2.5 ml, 100 rxns
K-6704	<i>AccuPower® Dual-HotStart™</i> RT-qPCR PreMix, 50 µl/rxn x 96 rxns
K-6707	<i>AccuPower® Dual-HotStart™</i> RT-qPCR Master Mix (2X), 2.5 ml, 100 rxns

Related Products

Cat. no.	Product Name
A-2041	<i>AllinOneCycler™</i> Thermal Block
A-2060-1	<i>Exicycler™</i> 96, Real-Time Quantitative Thermal Block

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