

SNP Taq DNA Polymerase



Ordering info:

Concentration: 20 U/ μ L	
Cat No.	Size
P0055	500 U
P0056	2,500 U

Includes for 500 U:

- SNP Taq DNA Polymerase (20 U/ μ L)
- Reaction Buffer (5x) without $MgCl_2$
- 100mM $MgCl_2$



Description:

SNP Taq DNA Polymerase is an efficient, High Fidelity and specific Hot-Start Polymerase with special N-terminal deletion and proprietary amino acids substitutions introduced into the active domine of the enzyme. Due this special modification the enzyme increases its sensitivity to mismatches at 3'-end of the primer. For this reason, unspecific amplicons are formatted due the non-perfect primers annealing.

Advantages & Features:

- ✓ 10 to 15-fold lower mutation rate than normal Taq DNA Polymerase.
- ✓ Allele-specific amplification of DNA fragments.
- ✓ Hlowest background AS-PEX and AS-PCR.
- ✓ Only 5'-3' polymerase activity, lack of 5'-exonuclease activity.

Unit definition:

One unit is defined as the amount of enzyme that incorporates 10 nmoles of dNTPs into acid-insoluble form in 30 minutes at 72°C.

Applications:

- ✓ High specific or Multiplex PCR.
- ✓ Real-Time PCR with intercalation dyes.
- ✓ High Fidelity dNTPs and ddNTPs.
- ✓ Mini Sequencing procedures.
- ✓ Allele-specific primer extension (AS-PEX).
- ✓ SNP genotyping by allele-specific PCR (AS-PCR).
- ✓ Single Nucleotide Polymorphism (SNP).

Quality control:

- ✓ Functionally tested in PCR.
- ✓ Free of bacterial DNA (by PCR).
- ✓ Exempt of nucleases (endo, exo and ribonucleases) activities guaranteed by appropriate quality tests.

Related products:

- TruePure™ dNTPs (p.115)
- BrightMAX™ DNA Ladders (p.116)
- Custom solutions (p.147)