

Taq II Polymerase and PCR Master Mix

Superior Performance on Fidelity, Stability and Specificity.

Taq II polymerase is an enhanced *Taq* DNA polymerase optimised for routine PCR applications. The enzyme provides a higher sensitivity, yields and longer PCR amplification as compared to conventional *Taq* DNA polymerase. It is supplied with optimised **Taq II** Polymerase 10X buffer and 25mM MgCl₂, minimising the need for optimisation.

Robust Amplification

Higher Sensitivity

Amplification of Targets up to 6kb

High Efficiency & PCR Yields

Faster Processivity

Polymerase for Everyday Applications

- ✓ DNA sequencing
- ✓ DNA labelling
- ✓ PCR for cloning
- ✓ Routine PCR
- ✓ PCR amplification of DNA fragments up to 6kb

Specifications

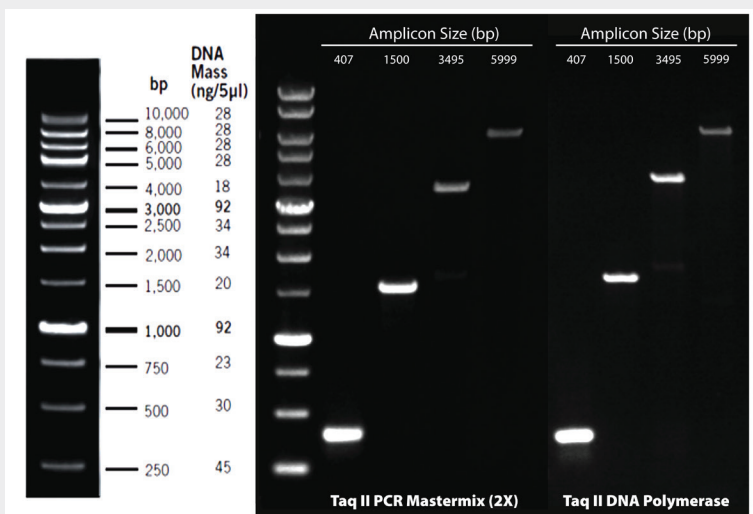
Fidelity	1X
Amplification length	Up to 6 kb
Overhang	Sticky ends/ 3'-A
Polymerase	Taq II DNA Polymerase
Amplification Speed	30s-60s/kb

Robust & Efficient Amplification

Reliable amplification from various sample type and amplification length. Improved yield with optimal buffer system and amplification of long DNA up to 6kb.

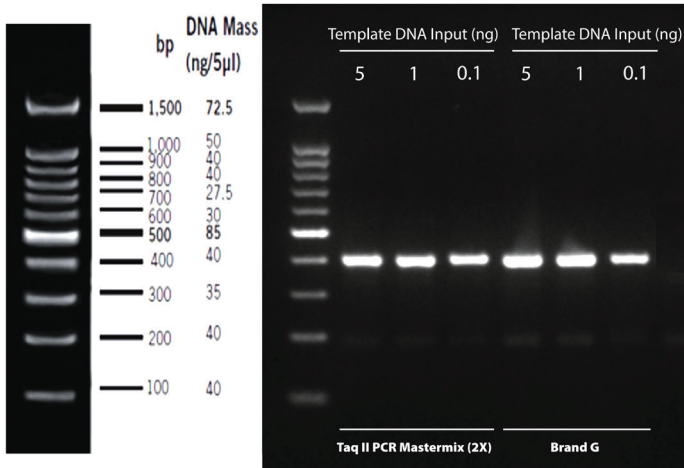
DNA fragments across different targets and length were amplified from

- (1) plasmid with an expected amplicon size of 407bp
- (2) bacteria sample with expected size of 1500bp
- (3) human gDNA with expected size of 3495bp
- (4) human gDNA with expected size of 5999bp.

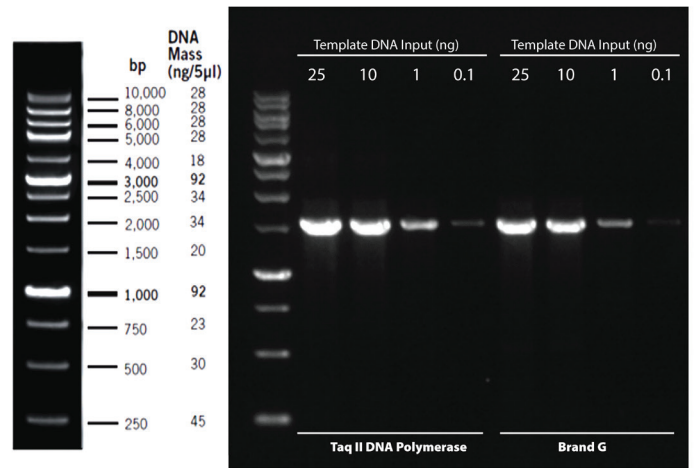


Higher Sensitivity

Taq II displayed a much higher sensitivity as compared to conventional *Taq* as well as other competitive polymerases.



(A) Amplification of a 407bp fragment from plasmid DNA on different amount of DNA templates starting from 5ng to 0.1ng is shown above.



(B) Amplification of 1500bp fragment from bacteria DNA on different amount of DNA templates starting from 25ng to 0.1ng.

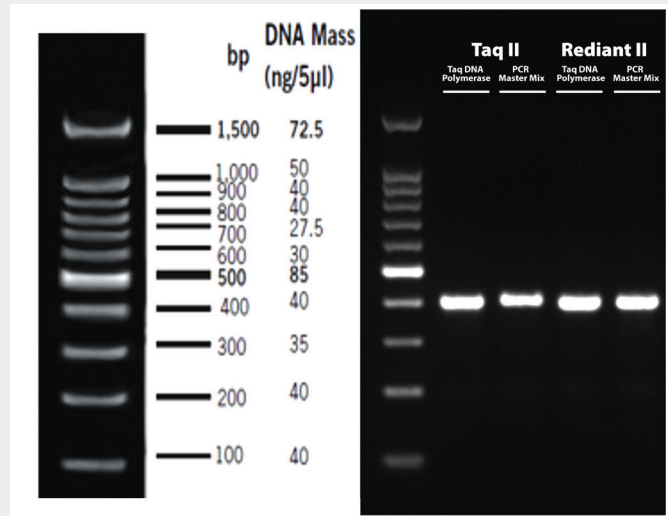
Faster Processivity

Improved **Taq II** was optimised to work under fast thermal cycling conditions of 30s/kb with consistency.

Amplification of 407bp DNA fragment from plasmid DNA using different Taq II formulated product:

- (1) Taq II DNA polymerase
- (2) REDiant II Taq DNA polymerase
- (3) Taq II PCR master mix
- (4) REDiant II PCR master mix

Based on extensions at 30s/kb.



Product Information

Product	Product Description	Product No.
Taq II	Taq II DNA Polymerase (recombinant), 500U	BIO-5111-500U
	Taq II DNA Polymerase (recombinant), 2500U	BIO-5111-2500U
	Taq II PCR Master Mix, 200 reactions	BIO-5181-200
	Taq II PCR Master Mix, 1000 reactions	BIO-5181-1000



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