

Super Pfx Master Mix

- Super Amplification Capability
- High Fidelity and Fast Premix system

Features

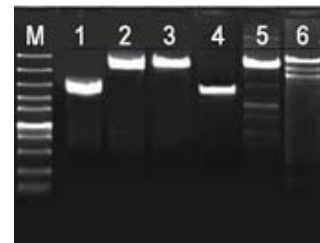
- **High Fidelity:** >100 times than Taq DNA polymerase
- **Long Fragment PCR:** Up to 20 kb
- **Fast Extension:** ~10 sec/kb
- **Super Adaptation:** High yield of PCR for complicated templates, such as CG-rich genomic region

Super Amplification

Super Pfx can provide high yield amplification for different species and different length templates by its strong enzymatic activity and continuous synthesis ability.

Example

Result showed that Human genomic DNA of 3 kb, 6 kb and 8 kb were amplified by high fidelity Mix from different companies. The results showed that Super Pfx had better amplification ability than PrimeSTAR.



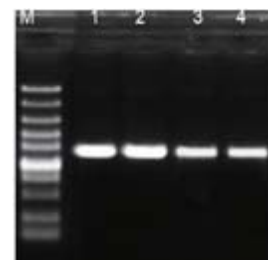
1-3: Super Pfx; 4-6: PrimeSTAR
Fragment Size: 1,4: 3 kb; 2,5: 6 kb; 3,6: 8 kb
M: CWBIO Super DNA Marker

Super Adaptation

Deal with all kinds of complex templates including crude templates, like human genomic DNA and rice genomic DNA.

Example

Using human genomic DNA (70% GC content) and rice genomic DNA (75% GC content) as template showed that super pfx can efficiently amplify the GC rich template.



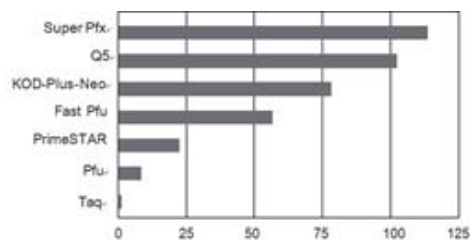
1-2: Human genomic DNA, 1.5 kb
3-4: Rice genomic DNA, 1.5 kb
M: CWBIO Super DNA Marker

High Fidelity

Super Pfx DNA Polymerase guarantees the accuracy of DNA sequence with excellent fidelity .

Example

The relative fidelity of Super Pfx DNA polymerase is more than 100 times as high as that of Taq DNA polymerase.



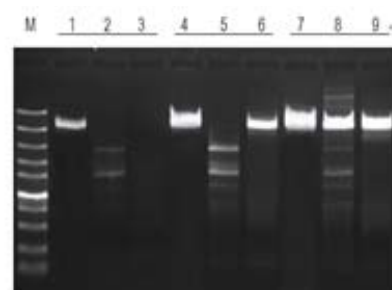
Comparison of Relative Fidelity of Various DNA Polymerases
The fidelity of Taq is set at 1. The fidelity of other enzymes is shown in the figure. Super Pfx can reach more than 100.

Fast Amplification Speed

Super Pfx has rapid elongation, which can greatly shorten annealing time and elongation time, and realize high-speed PCR reaction

Example

The 6 kb genomic DNA template was amplified with high fidelity enzymes from different companies. The results showed that the extension speed of Super Pfx could reach 10 sec/kb (6 kb/min), far exceeding than that of KOD and Fast Pfu.



1-3: Elongation 60 s (6 kb/min) ;
4-6: Elongation 90 s (4 kb/min) ;
7-9: Elongation 3 min (2 kb/min) ;
1,4,7: Super Pfx 2,5,8: KOD-Plus-Neo ;
3,6,9: Fast Pfu M: CWBIO Super DNA Marker

Further Applications

It's suitable for colony PCR, Next-Generation Sequencing(NGS), methylation detection, site directed mutagenesis, and construction of fusion gene construction, protein expression etc.

Ordering Information

Catalogue	Product	Volume
CW2965S	2×Super Pfx MasterMix	1 ml
CW2965M		5 ml
CW2848S	Super Pfx DNA Polymerase	100 U
CW2848M		500 U