

Enzyme Products Guide

Properties	Taq DNA Polymerase	FlashTaq	AlloyTaq	Integrity	Taq 2X Master Mix	Taq 2X MeanGreen Master Mix
Template Length	≤5kb	≤5kb	≤8.5kb	≤5kb	≤5kb	≤5kb
Hot-Start		✓				
High Fidelity			✓	✓		
Highly Robust	✓	✓	✓		✓	✓
Master Mix					✓	✓
Direct Loading						✓
Multiplex Capability						
Applications						
Standard PCR	✓	✓	✓	✓	✓	✓
Mid-Long PCR			✓			
Genotyping	✓	✓	✓		✓	✓
Multiplex PCR						
Low-Copy PCR					✓	✓
Colony PCR	✓	✓	✓		✓	✓
Blunt-End Cloning				✓		
TA Cloning	✓	✓	✓		✓	✓
Hot-Start PCR		✓				
High-Fidelity PCR			✓	✓		
Direct-to-Gel PCR						✓
Mutagenesis			✓	✓		
GC-Rich Templates	*	*	✓	*		
qPCR		✓				
cDNA Synthesis						

* When used with Empirical 10X GC Enhancer.

Properties	FlashTaq 2X Master Mix	FlashTaq Mean-Green Master Mix	5X Multiplex Master Mix	rEVALution qPCR Master Mix	RTScript cDNA Synthesis Kit
Template Length	≤5kb	≤5kb			
Hot Start	✓	✓			
High Fidelity					
Highly Robust	✓	✓	✓		
Master Mix	✓	✓	✓		
Direct Loading		✓			
Multiplex Capability			✓		
Applications					
Standard PCR	✓	✓	✓		
Mid-Long PCR					
Genotyping	✓	✓	✓		
Multiplex PCR			✓		
Low-Copy PCR	✓	✓			
Colony PCR	✓	✓			
Blunt-End Cloning					
TA Cloning	✓	✓			
Hot-Start PCR	✓	✓			
High-Fidelity PCR					
Direct-to-Gel PCR					
Mutagenesis					
GC-Rich Templates			✓		
qPCR				✓	
cDNA Synthesis					✓