Product Selection & Applications Guide

POLYMERASE							MASTER MIX					qPCR		REAGENTS			KITS								
Properties	**Taq**	**FlashTaq**	**AlloyTaq**	**Integrity**	**PFU-50 Polymerase**	**RTScript cDNA Synthesis Kit**	**2x Taq Master Mix**	**2x MeanGreen Master Mix**	**FlashTaq 2x Master Mix**	**FlashTaq MeanGreen Master Mix**	**5x Multiplex Master Mix**	**2x qPCR Probe Master Mix**	**2x rEVAlution qPCR Master Mix**	**GC Enhancer**	**dNTP Solutions**	**EasyLoad DNA Ladders**	**PCR Purification Kit**	**Agarose Gel Extraction Kit**	**Plasmid Mini-Prep Kit**	**EB Pure Plasmid Mini-Prep Kit**	**EB Pure Agarose Gel Extraction Kit**	**EB Pure PCR Purification Kit**	**EB Pure Tissue DNA Kit**	**EB Pure Total RNA Kit**	**EB Pure DNase I Digestion Kit**
Template Length	≤5kb	≤5kb	≤8.5kb	≤5kb	18.3≤kb		≤5kb	≤5kb	≤5kb	≤5kb							100bp-	100bp-	100bp-						
Hot-Start		✓							✓	✓															
High-Fidelity			2X Taq	6X Taq	50X Taq																				
Highly Robust	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓												
Master Mix							✓	✓	✓	✓	✓	✓	✓												
Ambient Storage	✓60 days						✓60 days	✓60 days			✓60 days						✓	✓	✓	✓	✓	✓	✓		
4C Storage	✓180 days	✓60 days					✓180 days	✓180 days	✓60 days	✓60 days	✓180 days	✓60 days	✓60 days												
Low Foam							✓	✓	✓	✓	✓	✓	✓												
Ultrapure															✓										
DNA Yield																	≤20ug	≤20ug	≤20ug	≤30ug	85%	>80%	60-90%	≤100ug	
Applications																									
Standard PCR	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		
Mid-Long PCR			✓		✓										✓	✓	✓	✓	✓	✓	✓	✓	✓		
2-step fast PCR					✓										✓	✓									
Genotyping	✓	✓	✓		✓		✓	✓	✓	✓	✓				✓	✓							✓		
Multiplex Capability											✓	✓		✓	✓	✓									
Low-Copy PCR						≥30ng	≥60Pg	≥60Pg	≥60Pg	≥60Pg		≥10 copies	≥10 copies		✓	✓									
Colony PCR	✓	✓	✓				✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓			
Blunt-End Cloning				✓	✓										✓	✓	✓	✓	✓	✓	✓	✓			
Mutation Analysis	✓	✓	✓	✓	✓		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓			
TA Cloning	✓	✓	✓				✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓			
Hot-Start PCR		✓							✓	✓					✓	✓									
High-Fidelity PCR			✓	✓	✓										✓	✓									
Direct-to-Gel PCR								✓		✓					✓	✓		✓			✓				
Gene Expression						✓						✓	✓		✓	✓								✓	✓
Mutagenesis					✓										✓	✓									
GC-Rich Templates	✓	✓	✓	✓	✓						✓			✓	✓	✓									
qPCR		✓										✓	✓										✓		
cDNA Synthesis						✓									✓									✓	✓