

# PCRBIO Enzyme Selection Guide

	Endpoint polymerases								Endpoint kits	
	PCRBIO Taq DNA Polymerase	PCRBIO HS Taq DNA Polymerase	PCRBIO Classic Taq	PCRBIO Ultra Polymerase	PCRBIO HiFi Polymerase	VeriFi™ Polymerase	VeriFi™ Hot Start Polymerase	VeriFi™ Library Amplification Mix	PCRBIO Rapid Extract PCR Kit	PCRBIO 1-Step Co RT-PCR Kit
<b>Properties</b>										
Maximum amplicon length	~6 kb	~6 kb	~6 kb	~6 kb	~10 kb	~20 kb	~20 kb	~20 kb	~6 kb	~6 kb
Fidelity vs Taq	x1	x1	x1	x3	x50	x100	x100	x100	x1	x1
3'→5' exonuclease (proofreading) activity				◇	◇	◇	◇	◇		
Hot start		◇		◇			◇	◇	◇	◇
High fidelity				◇	◇	◇	◇	◇		
Sensitivity	●●	●●●	●●	●●●	●●●●	●●●●●	●●●●●	●●●●●	●●●	●●●●
Specificity	●●	●●●	●●	●●●	●●●	●●●●	●●●●	●●●●	●●●	●●●
Stability at room temperature	●●●●	●●●●	●●●●	●●●	●●●●	●●●	●●●	●●●	●●●●	●●
<b>Available formats</b>										
Ready mix	◇	◇		◇		◇	◇	◇	◇	
Direct loading	◇	◇		◇		◇	◇		◇	
<b>Applications</b>										
Routine PCR	◇	◇	◇	◇					◇	
Long PCR				◇	◇	◇	◇	◇		
High-throughput		◇		◇			◇	◇	◇	
Multiplex PCR		◇		◇			◇	◇		
High fidelity PCR					◇	◇	◇	◇		
PCR from solid tissue		◇		◇			◇	◇	◇	
GC-rich templates		◇		◇	◇	◇	◇	◇		
Genotyping	◇	◇	◇						◇	◇
Bisulphite PCR	◇	◇		◇						
Methylated DNA	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
TA cloning	◇	◇	◇	◇					◇	◇
Blunt end cloning					◇	◇	◇	◇		
Colony PCR		◇		◇						
Crude sample PCR		◇		◇			◇	◇	◇	
Site directed mutagenesis					◇	◇	◇	◇		
Next generation sequencing					◇	◇	◇	◇		

◇ = Suitable for application

● = Relative activity



**PCRBIO SYSTEMS**  
simplifying research