

Endpoint PCR Selection Guide



1. Select your **Application** and note the recommended enzymes.
2. Select the appropriate enzyme based on your **Template**, **Performance** needs, and desired **Additional Features**.

Product	TITANIUM™ Taq	Advantage® 2	Advantage- GC 2	Advantage- HF 2	Advantage HD	Advantage Genomic LA	Advantage GC Genomic LA	Taq Full	Advantage cDNA Polymerase	Advantage GC cDNA Polymerase	Advantage HF	KlenTaq LA
Application												
Routine PCR	●	●						●				
Screening/Genotyping	●	●						●				
SNP Genotyping	●											
Cloning/Library Construction	●	●	●	●	●	●	●				●	●
cDNA Amplification	●	●	●	●	●				●	●		
Template/Amplicon Size (Recommended Ranges)												
Human Genomic DNA (kb)	0.1–2.0	<6.0	<6.0	<3.5	<8.5	8.0–30.0	8.0–30.0	<3.5	<5.0	<6.0	<3.5	<18.0
Plasmid or λ lysate (kb)	0.1–2.0	<18.5	<6.0	<2.0	<28.0	<35.0	<20.0	<3.5	<18.5	<6.0	<2.0	<35.0
cDNA (kb)	<4.0	0.4–8.5	<0.5	<1.3	<4.0	<10.0	<10.0	<3.5	<3.0	<0.5	<1.3	<3.0
Performance												
Short Amplicon/General Purpose	①											
Highest Yields	①	①			①				②			
Highly Complex (GC rich)			①				①			②		
Long and Accurate		②				①	①					②
High Fidelity		②		①	①	②	②				②	
Lower Cost Option					①			①				
Additional Features												
Hot Start	Y	Y	Y	Y	Y	Y	Y	Y/N	Y	Y	Y	N
T/A Cloning Compatible	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
Sprint™ (Dry-Down) Option	Y	Y										

● Clontech-recommended enzyme for this application

① Primary choice for the selected application

② Alternate choice for the selected application

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Enzyme Component Guide

Cat. No.	System	Format	Rxn Size (µl)	Core Enzyme	Proofreader	HotStart	Dry-Down	GC-Melt	DMSO	Water	5X Buffer**	10X Buffer**	2nd Buffer**	50 mM MgCl ₂	50X dNTPs	10X HF dNTPs	Controls		
TITANIUM™ Taq																			
639208	TITANIUM Taq DNA Polymerase	100 rxns	50	AdvanTaq		✓						✓							
639209	TITANIUM Taq DNA Polymerase	500 rxns	50			✓							✓						
639242	TITANIUM Taq DNA Polymerase	1,000 rxns	50			✓							✓						
639210	TITANIUM Taq PCR Kit	100 rxns	50			✓					✓		✓			✓		✓	
639211	TITANIUM Taq PCR Kit	30 rxns	50			✓					✓		✓			✓		✓	
639567	Sprint TITANIUM Taq 96 Plate	96 rxns	25			✓		✓											
639552	Sprint TITANIUM Taq 384 Plate	384 rxns	10			✓		✓											
Second Generation Advantage®																			
639206	Advantage 2 PCR Kit	100 rxns	50	AdvanTaq	✓	✓				✓		✓	✓		✓		✓		
639207	Advantage 2 PCR Kit	30 rxns	50			✓	✓				✓		✓	✓		✓		✓	
639201	Advantage 2 Polymerase Mix	100 rxns	50			✓	✓						✓	✓					
639202	Advantage 2 Polymerase Mix	500 rxns	50			✓	✓						✓	✓					
639550	Sprint™ Advantage 96 Plate	96 rxns	25	AdvanTaq	✓	✓	✓											✓	
639554	Sprint Advantage Single Shots 12 x 8 well strips	96 rxns	25			✓	✓	✓											
639556	Sprint Advantage Single Shots 1 x 8 well strips	8 rxns	25			✓	✓	✓											
639553	Sprint Advantage Single Shots 6 x 8 well strips	48 rxns	25			✓	✓	✓											
639123	Advantage-HF 2 PCR Kit	100 rxns	50	AdvanTaq	✓	✓				✓		✓	✓			✓	✓		
639124	Advantage-HF 2 PCR Kit	10 rxns	50			✓	✓				✓		✓	✓			✓	✓	
639119	Advantage-GC 2 PCR Kit	100 rxns	50	AdvanTaq	✓	✓		✓	✓	✓	✓				✓		✓		
639120	Advantage-GC 2 PCR Kit	10 rxns	50			✓	✓		✓	✓	✓					✓		✓	
639114	Advantage-GC 2 Polymerase Mix	100 rxns	50			✓	✓		✓	✓	✓								
639241	Advantage HD Polymerase Mix	200 rxns	25	Non-Taq		✓					✓								
639152	Advantage Genomic LA Polymerase Mix	100 rxns	25	Full-length Taq	✓	✓						✓							
639153	Advantage GC Genomic LA Polymerase Mix	200 rxns	25	Taq	✓	✓		*				✓							
Taq Full																			
639228	Taq Full Hot Start DNA Polymerase Enzyme Mix	100 units	50	Full-length Taq		✓						✓							
639229	Taq Full Hot Start DNA Polymerase Enzyme Mix	500 units	50				✓						✓						
639230	Taq Full Hot Start DNA Polymerase Enzyme Mix	5,000 units	50				✓						✓						
639231	Taq Full Hot Start DNA Polymerase PCR Kit	100 units	50				✓				✓				✓	✓		✓	
639232	Taq Full DNA Polymerase Enzyme Mix	100 units	50										✓						
639233	Taq Full DNA Polymerase Enzyme Mix	500 units	50										✓						
639234	Taq Full DNA Polymerase Enzyme Mix	5,000 units	50										✓						
639235	Taq Full DNA Polymerase PCR Kit	100 units	50							✓		✓		✓	✓		✓		
First Generation Advantage																			
639101	Advantage cDNA PCR Kit	100 rxns	50	KlenTaq-1	✓	✓						✓			✓		✓		
639102	Advantage cDNA PCR Kit	30 rxns	50			✓	✓						✓			✓		✓	
639105	Advantage cDNA Polymerase Mix	100 rxns	50			✓	✓						✓						
639115	Advantage-GC cDNA PCR Kit	100 rxns	50	KlenTaq-1	✓	✓		✓	✓		✓				✓		✓		
639116	Advantage-GC cDNA PCR Kit	10 rxns	50			✓	✓		✓	✓		✓				✓		✓	
639112	Advantage-GC cDNA Polymerase Mix	100 rxns	50			✓	✓		✓	✓		✓							
639121	Advantage-HF PCR Kit	100 rxns	50	KlenTaq-1	✓	✓				✓		✓	✓			✓	✓		
639108	KlenTaq LA Polymerase Mix	100 rxns	50	KlenTaq-1	✓							✓							

* GC-Melt included in buffer

** Contains Mg²⁺

See www.clontech.com/coa for Certificates of Analysis and a complete description of each component