

PCR Kit Selection Guide

Kit Part #	GeneAmp® Gold PCR Reagent Kit 4312778	AmpliTaq Gold® PCR Master Mix 4318739, 4327058, 4327059	GeneAmp® PCR Reagent Kit N8010055	GeneAmp® XL PCR Kit N8080192 N8080193	GeneAmp® High Fidelity PCR System 4328216, 4328217	AmpliCycle® Sequencing Kit N8080175
Application	Hot-Start PCR	Hot-Start PCR	PCR	Long PCR	High Fidelity	PCR Manual Cycle Sequencing
Sequencing Enzyme	N/A	N/A	N/A	N/A	N/A	AmpliTaq® DNA Polymerase, CS
PCR Enzyme	AmpliTaq Gold® DNA Polymerase	AmpliTaq Gold® DNA Polymerase	AmpliTaq® DNA Polymerase	<i>rTth</i> DNA Polymerase XL	AmpliTaq® DNA Polymerase and a Proprietary Proofreader	N/A
Fidelity	++	++	++	++++	++++	N/A
Comments	Kit contains a positive multiplex control for users new to hot-start PCR with AmpliTaq Gold® DNA Polymerase.	Contains all components necessary for PCR (AmpliTaq Gold® DNA Polymerase, Gold Buffer, dNTP's, MgCl ₂) at 2X the recommended usage concentration in one convenient mix.	Kit contains positive control, therefore beneficial for new PCR users testing out PCR systems or those customers in need of a positive control for instrument testing.	Optimal for long PCR amplifications. Amplifies up to 19.6 kb from genomic DNA and 42 kb from lambda DNA.	Enzyme blend formulated for increased fidelity and yield in PCR Products. Amplifies up to 10 kb from genomic DNA.	Sequencing from minimal amount of DNA by utilizing the combined power of linear amplification through thermal cycling and sequencing.