

Robust PCR for GC-rich templates

ccuPrime[™] GC-Rich DNA Polymerase is a new high-yield PCR enzyme designed specifically for GC-rich templates. AccuPrime[™] proteins provide high specificity and yield.

Optimized for GC-rich templates

AccuPrime[™] GC-Rich DNA Polymerase is optimized for difficult-to-amplify templates such as those containing >65% GC content. AccuPrime[™] GC-Rich outperforms the competition in robustness and yield (Figure 1). In addition, AccuPrime[™]

Figure 1 - AccuPrime™ GC-Rich DNA Polymerase outperforms the competition

GC-Rich DNA Polymerase is provided with two buffers to improve its flexibility—Buffer A is for genomic DNA targets, while Buffer B is for cDNA and plasmid targets.

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AccuPrime[™] GC-Rich DNA Polymerase (in Buffer A) was compared to Roche's GC-RICH PCR System, Stratagene's Herculase[®], and BDClontech's Advantage[™] 2 GC using 100 ng K562 DNA with manufacturer's recommended protocols and cycling conditions. The GC-rich targets used were 1) 299 bp, 2) 325 bp, 3) 520 bp 4) 545 bp 5) 709 bp, 6) 953 bp.

High-specificity PCR

AccuPrime[™] GC-Rich DNA Polymerase contains AccuPrime[™] accessory proteins, which greatly improve the specificity and robustness of PCR. These AccuPrime[™] proteins remain active

throughout all PCR cycles, facilitating primer binding to only the specific template sequence. This allows you to amplify only your specific DNA targets of interest, cycle after cycle.

High yield means greater sensitivity

AccuPrime[™] GC-Rich is cloned from *Pyrolobus fumarius*. It is extremely thermostable, allowing it to remain active for long periods at high temperature (four hours at >95°C)–dramatically improving PCR yield. You'll experience these high yields on targets up to 5 kb in length. AccuPrime[™] GC-Rich allows you to conserve precious starting material by using as little as 5 ng of template (Figure 2).

Figure 2 - AccuPrime™ GC-Rich provides high sensitivity for GC-rich templates



Template titration with AccuPrime[™] GC-Rich (in Buffer A) demonstrates sensitivity down to 5 ng of template. PCR reactions were performed in duplicate using K562 genomic DNA template in varying amounts with a GC-rich 520 bp target. PCR products were analyzed on a 0.8% agarose gel.

Order today

Get greater specificity and yield when amplifying your GC-rich templates. Order AccuPrime[™] GC-Rich DNA Polymerase today.

Product	Quar
AccuPrime [™] GC-Rich DNA Polymerase	200 1
	1000

Quantity 200 rxns 1000 rxns **Cat. no.** 12337-016 12337-024



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