



## PrimeSTAR® GXL DNA Polymerase

# Simplified amplification for targeted resequencing



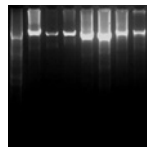
Targeted resequencing interrogates a specific genomic region of interest by next-generation sequencing, allowing rapid investigation. The choice of polymerase used for amplification is critical—particularly when identifying SNVs (which requires high fidelity) and when combining long-range PCR with NGS (which requires high processivity). For maximum efficiency, amplifying multiple targets ideally requires minimal target-specific optimization of reaction conditions.

PrimeSTAR GXL DNA Polymerase addresses each of these requirements to help you achieve success with targeted resequencing experiments.

PrimeSTAR GXL polymerase has:

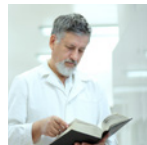
- high fidelity to allow SNV detection
- high processivity for long-range PCR
- hassle-free amplification capabilities even with GC-rich, AT-rich, or repetitive regions

Don't take our word for it. See how other researchers have used PrimeSTAR GXL polymerase in successful targeted resequencing experiments.



**Read a Case Study** describing research by scientists at the University of Southern California comparing PrimeSTAR GXL polymerase to other enzymes in a targeted sequencing workflow. PrimeSTAR GXL polymerase was unique among other polymerases tested in its ability to successfully amplify the entire *BRCA1* (83.2 kb) and *BRCA2* (84.2 kb) genes, prior to NGS with the Illumina® MiSeq® system.

[www.clontech.com/primestar-gxl-targeted-resequencing](http://www.clontech.com/primestar-gxl-targeted-resequencing)



**Read References** in which PrimeSTAR GXL was used in NGS workflows for a variety of applications to successfully identify candidate genes for Juvenile myelomonocytic leukemia (Illumina HiSeq®), HLA genotyping (Illumina MiSeq), and sequencing the repetitive *virB6* locus of a tick-borne pathogen (PacBio RS).

[www.clontech.com/targeted-resequencing-citations](http://www.clontech.com/targeted-resequencing-citations)



**Learn More** about PrimeSTAR GXL DNA Polymerase: see specifications and read the User Manual.

[www.clontech.com/primestar-gxl](http://www.clontech.com/primestar-gxl)

Simplified, successful targeted resequencing workflows  
with PrimeSTAR GXL DNA Polymerase



Takara

Clontech

Clontech Laboratories, Inc. • A Takara Bio Company

United States/Canada: +1.800.662.2566 • Asia Pacific: +1.650.919.7300 • Europe: +33.(0)1.3904.6880 • Japan: +81.(0)77.543.7247

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale. Takara, the Takara logo, and PrimeSTAR are trademarks of TAKARA HOLDINGS INC., Kyoto, Japan. Clontech, the Clontech logo, and that's GOOD science! are trademarks of Clontech Laboratories, Inc. Illumina, HiSeq, and MiSeq are registered trademarks or trademarks of Illumina, Inc. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. ©2014 Clontech Laboratories, Inc.

[www.clontech.com](http://www.clontech.com) 10.14 IN (633720)