Catalog number RG-Q5HF

High-Fidelity Hot-Start DNA Polymerase with GC Enhancer (2 uni

Hot-start proofreading DNA polymerase for high-GC and long-amplicon PCR. Published single-molecule sequencing puts proofreading archaeal polymerases of this class roughly 30- to 300-fold below Taq in substitution error rate; lots here are released on measured activity, not on a fidelity figure.

Specification

Enzyme class	DNA polymerase, family B, 3'->5' exonuclease (proofreading)
Concentration	2 units/µL
Unit definition	1 unit incorporates 10 nmol dNTP into acid-insoluble material in 30 min at 74 °C.
Activity assay	primer extension incorporation assay, activated salmon-sperm DNA template
Supplied buffer	5x reaction buffer with 10 mM MgCl2 (2 mM final at 1x); GC enhancer supplied separately
Molecular weight	98 kDa (SDS-PAGE)
Hot start	Yes
Thermostable	Yes
Applications	standard PCR, high-GC amplification, long-range PCR, cloning
Storage	-20 °C

Ordering

Catalog no.	Pack	List price	Availability
RG-Q5HF-100U	100 units	$45	Waitlist
RG-Q5HF-500U	500 units	$175	Waitlist
RG-Q5HF-1000U	1,000 units	$325	Waitlist

Storage and shipping

Cold chain	2 to 8 °C on conditioned gel packs.
Hazard classification	None
Certificate of Analysis	Issued per lot and shipped with the product. Any lot can be retrieved at bramantebio.com/support/coa/

RG-Q5HF continued

Research use only

For research use only. Not for use in diagnostic or therapeutic procedures, and not for human or veterinary use. The purchaser is responsible for determining suitability for their application and for compliance with applicable biosafety and institutional requirements.