Product Datasheet

qPCR GreenMaster UNG (orb1733679)

Description	qPCR SybrMaster UNG is designed for quantitative real-time analysis of DNA samples. The mix contains all reagents required for qPCR (except template and primers) in a premixed 2x concentrated ready-to-use solution. It is recommended for routine PCR applications, high throughput PCR or genotyping and provides an improved specificity and sensitivity when amplifying low-copy-number targets or working with complex backgrounds. The mix is based on an optimized hot-start polymerase. Its activity is blocked by antibody at ambient temperature and switched on automatically at the onset of the initial denaturation. The thermal activation prevents the extension of nonspecifically annealed primers and primer-dimer formation at low temperatures during PCR setup. The fluorescent DNA stain SYBR Green intercalates into the amplification product during the PCR process and allows the direct quantification of target DNA without the need to synthesize sequence-specific labeled probes (i.g. TaqMan Probes). The mix contains UNG (Uracil-N-Glycosylase) and dUTP instead of dTTP to eliminate carry-over contamination of DNA from previous PCR reactions. The UNG treatment at the onset of thermal cycling removes uracil residues from dU-containing DNA and prevents it from serving as template. The mix can also be used in combination with ROX reference dye (#orb533366) in PCR instruments that are compatible with the evaluation of the ROX signal.
Form/Appearance	liquid
Concentration	2x conc
Storage	store at -20 °C. avoid freeze/thaw cycles, store dark. Storage at 4 °C for up to 3 months possible
Note	For research use only
Application notes	b>Spectroscopic Propertie: λexc 494 nm (bound to DNA), λem 521 nm, (bound to DNA).
Expiration Date	12 months from date of receipt.

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