

Polymerase (DNA directed), Lambda Human Recombinant

Item Number	rAP-1590
Synonyms	Polymerase (DNA directed) lambda, Pol beta2, DNA polymerase beta-2, DNA polymerase kappa, BETAN, POLKAPPA, DNA polymerase beta-N, EC 2.7.7.7, EC 4.2.99.
Description	POLL Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 320 amino acids (1-300) and having a molecular mass of 36.0 kDa. POLL is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q9UGP5
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MLMHHQKYLQ RFLGGKREKK QKEACSIPGI GKRMAEKIIE ILESGHL- RKL DHISESVPVL ELFSNIWGAG TKTAQMWYQQ GFRSLEDIRS QASLTQQAI GLKHYSDFLE RMPREEATEI EQTVQKAAQA FNSGLLCVAC GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLDSLRLQEG FLTDDLVSQE ENGQQKYLQ VCRLPGPGRR HRRLDIIVP YSEFACALLY FTGSAH- FNRS MRALAKTKGM SLSEHALSTA VVRNTHGCKV GPGRVLPPT EKDVFRLGL PYREPAERDW.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The POLL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 30% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**