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## Product Data Sheet

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Product Name: POLL Human  
 Cat. No.: GP22112  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLMHHQKYLQ RFLGGKREKK QKEAC SIPGI GKRMAEKIIE ILESGHLRKL DHISESVPVL ELFSNIWGAG TKTAQM WYQQ GFRSLEDIRS QASLTTOQAI GLKHYSDFLE RMPREEATEI EQTVQKAAQA FNSGLLCVAC GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLLDSL RQEG FLTDDLVSQE ENGQQQKYL G VCRLPGPGRR HRRLDIIVVP YSEFACALLY FTGSAHFNRS MRALAKTKGM SLSEHALSTA VVRNTHGCKV GPGRVLP TPT EKDVFRLLGL PYREPAERDW.		
Formulation	The POLL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 30% glycerol.		

### Introduction

DNA polymerase POLL is involved in base excision repair (BER). POLL is a low-fidelity polymerase that takes part in both spontaneous and DNA damage-induced mutagenesis. Furthermore, POLL takes part in the mutagenic bypass of T-T dimers. Pol lambda possesses terminal transferase and 5 $\beta$ n-deoxyribose-5-phosphate lyase activity which is synchronized by PCNA and replication protein A.

### Stability

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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

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