

Product datasheet for **SC328936**

DNA Polymerase lambda (POLL) (NM_001174084) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA Polymerase lambda (POLL) (NM_001174084) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNA Polymerase lambda
Synonyms:	BETAN; POLKAPPA
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001174084, the custom clone sequence may differ by one or more nucleotides

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ATGGATCCCAGGGGTATCTTGAAGGCATTTCCAAGCGGCAGAAAATTCATGCTGATGCA
TCATCAAAGTACTTGCAAAGATTCTAGGAGGGAAGAGGGAGAAGAAGCAGAAGAGTGG
CTGAGCTCCCTTCGGGCCCATGTTGTGCGCACTGGCATTGGACGAGCCCGGGCAGAACTC
TTTGAGAAGCAGATTGTTGATGAGCATGGCGCCAGCTATGCCCTGCCAGGGCCAGGTGTC
ACTCATTGTGGTGGATGAAGGCATGGACTATGAGCGAGCCCTCCGCCTTCTCAGACTA
CCCCAGCTGCCCGGGTGTCTAGCTGGTGAAGTCAGCCTGGCTGAGCTTGTGCCTTCAG
GAGAGGAGGCTGGTGGATGTAGCTGGATTGAGCATCTTCATCCCCAGTAGGTAAGTGGAC
CATCCACAGCCCAGCAAGGCAGAGCAGGATGCTTCTATTCTCCTGGCACCCATGAGGCC
CTGCTTCAGACAGCCCTTCTCCTCCTCCTCCACCAGGCCTGTGTCTCCTCCCAA
AAGGCAAAGAGGCACCAAACCCCAAGCCAGCCCATCTCTGATGATGAAGCCAGTGTG
GGGGAAGAAACCCAGGTTAGTGCAGCTGATCTGGAAGCCCTCATCAGTGGCCACTACCC
ACCTCCCTTGAGGAGATTGTGAGCCTAGCCAGCCCTGCTGTCTGGATAAGTGGGTC
TGTGCACAGCCCTCAAGCCAGAAGGCGACCAATCACAACTCCATATCACAGAGAAGCTG
GAAGTTCTGGCCAAAGCCTACAGTGTTCAGGGAGACAAGTGGAGGGCCCTGGGCTATGCC
AAGGCCATCAATGCCCTCAAGAGCTTCCATAAGCCTGTCACCTCGTACCAGGAGGCTGC
AGTATCCCTGGGATTGGGAAGCGGATGGCTGAGAAAATCATAGAGATCCTGGAGAGCGGG
CATTTCGCGAAGCTGGACCATATCAGTGAGAGCGTGCCTGTCTTGGAGCTCTTCTCCAAC
ATCTGGGGAGCTGGGACCAAGACTGCCCAGATGTGGTACCAACAGGGCTTCCGAAGTCTG
GAAGACATCCGCGACCCAGGCCTCCCTGACAACCCAGCAGGCCATCGGCCCTGAAGCATTAC
AGTGACTTCTGGAACGTATGCCAGGGAGGAGGCTACAGAGATTGAGCAGACAGTCCAG
AAAGCAGCCAGCCCTTTAACTCTGGGCTGTGTGTGGCATGTGTTTCATACCGACGG
GGAAAGGCGACCTGTGGTGTGTCGACGTGCTCACTCACTCAGATGGCCGGTCCAC
CGGGGTATCTTCAGCCGCTCCTTGACAGTCTTCGGCAGGAAGGGTTCCTCACAGATGAC
TTGGTGTAGCCAAGAGGAGAATGGTCAAGCAAGAGTACTTGGGGTGTGCCGGCTCCCA
GGGCCAGGGCGCGCACCCGGCGCTGGACATCATCGTGGTGCCTATAGCGAGTTTGGC
TGTGCCCTGCTCTACTTCACCGCTCTGCACACTTCAACCGCTCCATGCGAGCCCTGGCC
AAAACCAAGGGCATGAGTCTGTGAGAATGCCCTCAGCACTGCTGTGGTCCGGAACACC
CATGGCTGCAAGGTGGGGCTGGCCGAGTGTGCCACTCCACTGAGAAGGATGTCTTC
AGGCTCTTAGGCCTCCCTACCGAGAACCTGCTGAGCGGGACTGGTGA

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Restriction Sites: Please inquire

ACCN: NM_001174084

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001174084.1</u> , <u>NP_001167555.1</u>
RefSeq Size:	2804 bp
RefSeq ORF:	1728 bp
Locus ID:	27343
UniProt ID:	<u>Q9UGP5</u>
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair, Non-homologous end-joining
Gene Summary:	<p>This gene encodes a DNA polymerase. DNA polymerases catalyze DNA-template-directed extension of the 3'-end of a DNA strand. This particular polymerase, which is a member of the X family of DNA polymerases, likely plays a role in non-homologous end joining and other DNA repair processes. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Both variants 1 and 2 encode the same isoform (a).</p>