

Product datasheet for **SC322059**

DNA Polymerase beta (POLB) (NM_002690) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA Polymerase beta (POLB) (NM_002690) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNA Polymerase beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322059

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ACCATTGTTCCGCCGGTCGCGCCGGAGCTGGGTTGCTCCTGCTCCCGTCTCCAAGTCTCTG
GTACCTCCTTCAAGCTGGGAGAGGGCTCTAGTCCCTGGTTCTGAACACTCTGGGGTTCTC
GGGTGCAGGCCGCCATGAGCAAACGGAAGCGCCGAGGAGACTCTCAACGGGGGAATCA
CCGACATGCTCACAGAACTCGCAAACCTTTGAGAAGAACGTGAGCCAAGCTATCCACAAGT
ACAATGCTTACAGAAAAGCAGCATCTGTTATAGCAAAATACCCACACAAAATAAAGAGTG
GAGCTGAAGCTAAGAAATTGCTGGAGTAGGAACAAAATTTGCTGAAAAGATTGATGAGT
TTTTAGCAACTGGAAAATTACGTAAGTGGAAAAGATTCGGCAGGATGATACGAGTTCAT
CCATCAATTTCTGACTCGAGTTAGTGGCATTGGTCCATCTGCTGCAAGGAAGTTGTAG
ATGAAGGAATTAACACTAGAAGATCTCAGAAAAATGAAGATAAATTGAACCATCATC
AGCGAATTGGGCTGAAAATTTTTGGGGACTTTGAAAAAGAATTCTCGTGAAGAGATGT
TACAAATGCAAGATATTGTAATAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT
CAGTCTGTGGCAGTTTCAGAAGAGGTGCAGAGTCCAGTGGTGACATGGATGTTCTCCTGA
CCCATCCCAGTTCACCTCAGAATCAACCAACAGCCAAAACCTGTTACATCAGGTTGTGG
AGCAGTTACAAAAGGTTCAATTTATCACAGATACCCTGTCAAAGGGTGAGACAAAGTTCA
TGGGTGTTTGCCAGCTTCCAGTAAAAATGATGAAAAAGAATATCCACACAGAAGAATTG
ATATCAGGTTGATACCAAGATCAGTATTACTGTGGTGTCTCTATTTCACTGGGAGTG
ATATTTTCAATAAGAATATGAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGT
ACACCATCCGTCCTTGGGAGTCACTGGAGTTCAGGAGAACCCCTGCCAGTGGATAGTG
AAAAGACATCTTTGATTACATCAGTGGAAATACCGGGAACCAAGGACCGGAGCGAAT
GAGGCCTGTATCCTCCCTGGCAGACACAACCAATAGGAGTCTTAATTTATTTCTTAACC
TTTGCTATGTAAGGGTCTTTGGTGTTTTAAATGATTGTTTCTTCTTCATGCTTTTGCTT
GCAATGTAGTCAATAAAACCTCATGTACTATTAATAAAAAAAAAAAAAA

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Restriction Sites: Please inquire

ACCN: NM_002690



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002690.1</u> , <u>NP_002681.1</u>
RefSeq Size:	1259 bp
RefSeq ORF:	1008 bp
Locus ID:	5423
UniProt ID:	<u>P06746</u>
Cytogenetics:	8p11.21
Domains:	POLXc, HhH1
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
Gene Summary:	The protein encoded by this gene is a DNA polymerase involved in base excision and repair, also called gap-filling DNA synthesis. The encoded protein, acting as a monomer, is normally found in the cytoplasm, but it translocates to the nucleus upon DNA damage. Several transcript variants of this gene exist, but the full-length nature of only one has been described to date. [provided by RefSeq, Sep 2011]