

Product datasheet for **MC216141**

Polg2 (NM_015810) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polg2 (NM_015810) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polg2
Synonyms:	mtPolB; p55; polG-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216141 representing NM_015810
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCTGCGGTGGCGGCCAGGGCCTGCCGAGGGCCTGCAGGTGCTGGCTGCCGGTACGCGGGT
 CCGCAGATGGGACGCAGCAGCCTGACGCCCCGAGCATGCGGTGGCCCGGAGGGCCTGGTAGACCTCTG
 CCGGAGGAGGCACCTTTTTCAGCGGGACGCCGAGCAGCTCAGCACGGCTGCTCTGCTGAGCGGGTCCAC
 GCGCGCTTTGGACCTTTGGGTGTAGAGTTACGAAAGAACCTAGCCTCACAGTGGTGGTCTCTATGGTGG
 TGTTCCAGGAGCAGGTCTTCGCGGTGGACTCCCTCCACCAGGAGCCGGGCTTTCGACGCCGAGGGACAG
 TGCCTTCAGTGTAGTCTCCAGAAAGTACGCGAAATCTTGAAGACAGAGAGCCGAGTAAGGAACAG
 CTAGTGGCATTCTTGGAACTTATTAATAAATCTGGGAACTACGGGCGACTCTTCTCACGGTGCCT
 TGGAGCACTATGTTAATGCCTGGATCTGGTAAACAGAAAGCTACCTTTCGGTCTTGTCTCAGATTGGAGT
 CTGTTTCCATCCTGTTTTCGAACAGCAATCAGACACCCAGCAGTGTACAAGAGTTGGTAAAAGACGGAA
 GCTTCTTGGTATGGTTTACTCCACAAGGACTTCGAGCCAGTGGCTTGATTTCTGGTTGCGTCATCGGC
 TTCTGTGGTGGAGAAAGTTTGTATGAGTCCCTCTAATTCAGCAGCGCTGATTGTCAGGATGAATTGGG
 ACGCAAGGGAAGCAAACCTTTACTACAGCTTCCCCTGGGAAAGGAGCCAAATAGAAACCTGTGGAACCTA
 GGAGATCAAGAACTCCTACACACATATCCTGGAATGTGTCTACGATACAGGGTCGAGATGGGCGGAAAA
 ACGTGGTTCCTTGCCTTGTCTGTAAGTGGGGACGTAGACCTGGGCACGCTGGCTTACCTCTACGATTC
 CTTCCAGCTGGCAGAACTCCTTTGCCAGGAAGAAGAGCCTCCAGAGAAAGGTGCTTAACTTCACCCCT
 TGTTTAGCCCTATTAAGGTCGCTTTGGATGTGGGAAAGGCCAACGGTAGAACTCCGACAGGTTTGTG
 AAGGGCTACTTAATGAGTTACTAGAAAATGGGATTTCTGTGTGGCCTGGCTATTCCGAAACTGTCCATTC
 CTATTAGAGCAACTCCATTCAAAGTACGATGAGATGAGTGTCCCTTCTCAGTTCTGGTCACTGAGACT
 ACGCTGGAAAATGGGCTAATCCAGCTGCGGAGCAGAGACACCACGATGAAGGAAATGATGCACATATCCA
 AGCTGAGAGACTTCTGGTCAAGTACCTAGCGTCAGCTAGCAATGTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2264_c11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_015810

Insert Size: 1380 bp

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](#)

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_015810.2</u> , <u>NP_056625.2</u>
RefSeq Size:	1585 bp
RefSeq ORF:	1380 bp
Locus ID:	50776
UniProt ID:	<u>Q9QZM2</u>
Cytogenetics:	11 E1
Gene Summary:	<p>Mitochondrial polymerase processivity subunit. Stimulates the polymerase and exonuclease activities, and increases the processivity of the enzyme. Binds to ss-DNA.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the protein (1a) encoded by the C57BL/6 reference assembly.</p>