

Product datasheet for **MC223968**

Polg (NM_017462) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polg (NM_017462) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polg
Synonyms:	AA409516; PolgA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223968 representing NM_017462 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCGCTGCTCTGGAAGAAGGTGGCTGGCGCCAAGGTCGCCTCAGGGCCAGTACCAGCAACCCGCG
GCTGGGTCTCCAGCTCCGTCCTCGACCCCGTCCCAGCGACGGGGCGGCCCGTCGCAAATGCCCTCCTC
CGAATGGGCAGCTGCGGCTCAACCTCTGCTCATCCAGATGTTGTGCGAGAGCCTGCACGAGCAGATC
TTCGGGTGCGGGGAAATGCCCGACGAGGCCGGTGCAGCGCAGCGTAGAGCACCTGCAGAAGCAGC
GGCTCTGGGGCAGCCGGCCACGCCCTTGCAGACGTGGAGCTGCGCCTGCCCGGCTCTTCGGGGCAA
CCTGGACCAGCACTTCCGCCTCCTGGCCAGAAGCAGAGCCTGCCTTACTTGGAGGCGGCCGCTCGTTA
TTGGAGGCCAATTGCCCCCGAGCCAAAGAGCTGGGCCTGGGCGGAGGGCTGGACCCGGTACGGCCCCG
AGGGGGAGGCCGAACCCGTGGCCATCCCGAGGAGCGGGCCCTGGTGTTCGACGTGGAGGTCTGCTTGGC
AGAGGGAACTGCCCACTTTGGCGGTGGCCATATCCCCCTCGGCCTGGTATTCTTGGTGCAGCCGGCGG
CTGGTGAAGAGCGTTACTCTTGGACCAGCCAGCTATCGCCGGCTGACCTAATCCCTTTGGGGGGCTCCA
CTAGTGCCAGCAGCTCCACCAAGCAGGATGGGCAGGAACAGTTAGTGGTGGGGCACAATGTTTCCTTTGA
CCGAGCCCATATCAGGGAACAGTATCTGATTCAGGACTCCCGGATGCGTTTTCTCGATACTATGAGCATG
CACATGGCCATCTCGGGCTGAGCAGCTTCCAGCGCAGCCTGTGGATGGGAGCCAAGCAGGAAAGCACA
AGACCCAGCAGTCCACAAAGCGAGGGCAGAAAGTCCCGAGGAAAGCCAATGGTCCAGCGATCTCATCTTG
GACTGGATGGATATCAGCAGTGCCAATAATCTTGCAGATGTGCACAACCTTTATGTGGGGGACCTCCC
TTAGAGAAGGAGCCTCGGGAGCTGTTCTCAAAGGCAGCATGAGGGATATCCGAGAGAACTCCAGGATC
TGATGCAGTACTGCGCCCGTGTGTGGGCCACCTTTGAGGTTTTCCAGCAGCAGCTGCCACTCTTCTT
GGAGAGGTGTCCCAACCCAGTACTCTGGCTGGCATGCTGGAGATGGGTGTCTACCTGCCTGTCAAC
CAGAACTGGGAGCGTTACCTGACAGAGGCAGAACACATATGAGGAGCTCCAGCGGGAGATGAAGAAGT
CGCTGATGGATCTGGCTAATGATGCCTGTGCTGCTCAGGAGAGAGGTACAAAGAAGACCTTGGCT
CTGGGACCTAGAATGGGATTTGAGGAGTTAAGCAGAAAAAGGCAAGAAGGTGAAGAAGCCAGCCTCA



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GCCAGCAAGTTGCCCATCGAGGGAGCTGGGCCCTTTGGGGATCCCATGGATCAGGAAGATCCTGGCCCCG
CCAGCGAGGAGGAGCTTCAGCGAAGTGAACAGCCACAACCGGTTACAGCAGCTGAGGAGCACCAC
GGACCTCTGCCTAAGCGACCCAGCACCTCCAGGACACCTGGGTGGTACCGGAAGCTCTGCCCTCGA
CTAGATGACCTGCCTGGGCTCCCGCCCCAGCCTCCTCAGCCTGCAAAATGCGGGTCACTCCTAAGCTCA
TGGCACTGACCTGGGATGGTTTTCTCTACACTACTCAGACTCTCATGGTTGGGGCTACCTAGTGCCTGG
GCGTCGGGATAATCTGACCGAGCCGCCAGTGAGCCCCACTGTAGAATCCGCTGCAGTAACCTGCCCTAC
AGAGCCATCGAGTCCTTATACAGGAAGCACTGCCTTGAACAGGGGAAGCAGCAATTGGAGCCCCAGGAGG
TAGACCTGGCTGAGGAGTCTTACTCACTGACAGTAGTGCCATGTGGCAAACGGTAGAAGAAGCTGGGCTG
CTTAGACGTAGAGGCTGAGGCCAAGATGGAGAATTCAGGGCTGAGCCAACCTCTAGTTCTGCCTGTGCT
TGTGCCCCCAAATCCAGCCAGCCACGTATCACCATGGCAACGGACCTTATAATGATGTGAATATCCCTG
GTTGCTGGTTTTCAAGCTGCCTCACAAGGACGGTAACAATACTACAATGTGGGCAGTCCCTTTGCCAAGA
TTTTCTGCCCAAGATGGAGGATGGCACCCTGCAGGCTGGCCAGGAGGTGCCAGTGGGCCTCGTGCCTG
GAAATAAATAAAATGATTTCTTTTTGGAGGAATGCTCATAAACGTATCAGTTCACAGATGGTGGTATGGC
TCCCCAGGTGAGCTCTGCCCGGGTTGTGACCAGGCACCCAGCTTCGATGAGGAAGGCCACTATGGGGC
CATCTACCCAGGTGGTACTGCTGGCACCATCACCCGTCGAGCTGTGGAGCCACGTGGCTCACTGCC
AGTAATGCTCGGCCTGACCGGGTAGGCAGTGAGTTGAAAGCCATGGTGCAGGCTCCACCTGGCTATGTCC
TTGTGGGTGCTGATGTGGACTCACAGGAAGTGGATCGCAGCTGTACTTGGAGATGCTCACTTTGCTGG
GATGCATGGCTGCACGGCCTTTGGCTGGATGACTCTGCAGGGCAGGAAGAGCAGAGGCACTGATCTGCAC
AGCAAGACAGCTGCCACTGTGGGCATCAGCCGAGAGCATGCCAAAATCTTCAACTATGGCCGCATCTATG
GGGCTGGGCAGTCTTTGCTGAGCGCCTACTGATGCAGTTCAACCACAGGCTCACAAGGCAGGAGGCAGC
TGAGAAGGCCAGCAGATGTATGCAGTCACAAAAGGCCTGCGCCGGTATCGGCTGTCTGCGGATGGTGAG
TGGCTGGTGAACAGTTGAATCTTCTGTGGACAGGACAGAGGACGGCTGGGTCTCCCTACAAGATCTTC
GAATGATCCGAAGAGAAGCTTCAAGGAAGTCACGATGGAAGAAGTGGGAGGTAGCCTCTGAACGAGCATG
GACAGGGGACACAGAGTCAGAAATGTTTAATAAGCTGGAGAGTATTGCCATGTCTGATACACCACGTACC
CCAGTACTGGGCTGCTGCATCAGCAGAGCCTTGGAGCCCTCAGTTGTCCAGGGAGAGTTTATAACCAGTC
GTGTGAAGTGGTGGTACAGAGCTCTGCTGTAGACTACTTACATCTCATGCTTGTGGCCATGAAGTGGCT
GTTTGAGGAATTTGCCATTGATGGGCGCTTCTGCATCAGCATCCACGACGAGGTTTCGCTACCTGGTGCCT
GAGGAGGACCGCTACCGTGCCGCCCTGGCACTGCAGATCACCAATCTCCTGACCAGGTGCATGTTTGCCT
ATAAGCTGGGTCTGAATGATCTGCCCCAGTCAGTCGCCTTTTTTCAAGTGCAGTAGACATTGACCAGTGCCT
CAGGAAGGAAGTACCATGGACTGTAAACTCCTTCTAACCAACTGGGATGGAAGGAGATATGGGATC
CCCCAGGGTGAAGCACTGGATATTTACCAGATAATTGAACTCACCAAAGGCTCCTTGAAAAACGAAGCC
AGCCTGGACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2273_a02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_017462

Insert Size: 3654 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:

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: [NM_017462.2](#), [NP_059490.2](#)

RefSeq Size: 4596 bp

RefSeq ORF: 3654 bp

Locus ID: 18975

Cytogenetics: 7 D2