

## Product datasheet for **RN201094**

### **Polg2 (NM\_001107060) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Polg2 (NM_001107060) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Polg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN201094 representing NM\_001107060  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACTCGGGTGGCGTGCCAGGGCCTGCCGAGGGCCTGCAGGTGCTGGCTGTCCGGATATGCGGGTC  
 CCACAGATGGGACGCAGCAGCCTACGGACCCCGAGCATGCATTGGCCCGGAGGGCCTGGTAGACCTCTG  
 CCGGAGGAGGCACCTTTCTCAGCGGAACGCCACAGCAGCTCAGCACGGCTGCTCTCCTGAGCGGATGCCAC  
 TCAGGCTTTGGACCTTTGGGTGTAGAGTTACGAAAGAACCTAGCCTCACAATGGTGGTCTCTATGGTGG  
 TGTTCCAGGAGCAGGTCTTCGCGGTGGACTCCCTCCACCACGAGCCGGGCTCTTCTCAGCCCCGGGACAG  
 TGCCTTCAGGTTAGTTTCTCCAGAATGTATACGCGAAATCTTGAAGACAAGAGCTGAGTAAGGAACAG  
 CTAGTGGCATTCTTGAGAACTATTA AAAA ACTCTGGGAACTACGGGAGACTCTTCTCACGGTGCCT  
 TAGAGCACTATGTTCACTGCCTGGATCTGGTAAACAGAAAGCTACCTTACGGCCTTGCTCAGATTGGAGT  
 GTGTTTCCATCCTGTTTTGAACCCTAAGGAGATACCCAACAGTGTACAAGAGTTGGCGAAAAGACAGAA  
 GCTTCGTTGGTGTGGTTTACTCCACAAGGACTTCGAGCCAGTGGCTTGATTTCTGGTTGCGCCATCGGC  
 TTCTGTGGTGGAGAAAGTTTGTGTGAGTCCCTCTAACTTCAGCAGCGTCGACTGTCAGGATGGATCGGG  
 TCGTAAGGGATGCAGGCTCTACTACAGCTTCCCTGGGGGAAGGAGCCACTGGAGACCCTGTGGGATCTA  
 GGAGAGCAAGAACTCCTAAACGTGTATCCTGGAGATGTGTCTGCATACAGGGTCGAGATGGGCGGAAAA  
 ACGTGGTTCCTCCGTTCTGTCTGTAATGGGGACCTAGACCTGGGCACGCTGGCTTACCTCTACGATTC  
 CTTCCAGTTCACAGAGAACTCCTTTTCGAGGAAGAAGAGCCTCCAGAGAAAGGTGCTTAACTTCACCCCT  
 TGTTTAGCCCTATTAAGGTGGCTCTAGATGTGGGAAAGGCCAACCGTGAAGTCCGACAGGTTTGCC  
 AAGGGCTACTCAATGAGTTACTAGAAAATGGGATTGCTGTGGCCTGGTTATTTGGAACTGCACAGT  
 CTATTAGAGCAACTCTATTCAAAGTACGATGAGATGAGTATCCTCTTACGGTTCTAATCACTGAAACC  
 ACCTTGAAAGTGGGCTGATCCAGCTTCGAAGCCGAGACACCACGATGAAGGAGATGATGCACATATCCA  
 GGCTGAGAGACTTCTGGTCAAGTACCTGGCGTCAGCTGGGAAGGCATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2380\\_c05.zip](https://cdn.origene.com/chromatograms/ja2380_c05.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001107060

**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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001107060.1, NP_001100530.1</u>
<b>RefSeq Size:</b>	1872 bp
<b>RefSeq ORF:</b>	1380 bp
<b>Locus ID:</b>	303612
<b>Cytogenetics:</b>	10q32.1