

Product datasheet for RN204058

Polg (NM_053528) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polg (NM_053528) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Polg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204058 representing NM_053528 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCGCCTGCTCTGGAAGAAGGTGGCCGGCGCCAAAGTCGCCTCAGGGCCAGTACCAGCAACAGGAC
GCTGGGTCTCCAGCTCCGTCCTCGACCCCGTCCCAGCGACGGGCAGCCGAGTCGCAAATGCCCTCCTC
AGAGAAATGGGCAGCTGCGGCTCAACCTCTGCACATCCAGATGCTGTGAGAGGCCTGCACGAGCAAATC
TTCGGGTGCGGAGGGGACGTGCCGACGAGGCCGCGGTGCAGCGCAGCATCGAGCACCTACGGAAGCAGC
GGCTCTGGGGGACGCCACCCCTTGCCAGACGTGCAGCTGCGCCTGCCCGGCTCTCGGGGGCAA
CCTGGACAGCACTTCCGCCTCCTGGCCAGAAGCAGAGCCTCCCGTACTTGGAGGCGGCCGCTCGTTA
TCGGAGGCCAAATTGCCCCCGAGCCAGGAAGTGGGTCTGGGCGGAGGGCTGGACCCGGTACGGCCCCG
AGGGGGAGGCCGAACCCGTGGCCATCCCGAGGAGCGGGCCCTGGTGTTCGACGTGGAGGTCTGCTTGGC
AGAGGGAACTGCCCACTTTGGCGGTGGCCATATCCCCCTCGGCTGGTATTCTTGGTGCAGCCGGCGG
CTGGTGAAGAGCGTTACTCTGGACCAGCCAGCTGTGCGCGGCTGACCTAATCCCTTTGGGGGTCTCTG
CTAGTGCCAGCAGCTCCACCCAGCAGGATTGGCAGGAACAGTTAGTGGTGGGGCACAATGTTTCCTTTGA
CCGAGCCCATATCAGGGAGCAGTATCTGATTAGGGCTCACGCATGCACTTTCTGGACATATGAGCATG
CACATGGCTATCTCAGGGCTGAGCAGCTCCAGCGCAGTCTGTGGATGGGAGCCAAGCAGGGCAAGCACA
AGACCCAGCATCTACAAGCGAGGTGAGAAGTCCCAGAAGAATGCGAATGGTCCAGCGATTTTCATCTTG
GGACTGGATGGACATCAGCAGTGCTAATAATCTTGACAGCTGCACAACCTTTATGTGGGGGACCTCGC
TTAGCGAAGGAGCCTCGGGAAGTGTTCGTCAGAGGCAGCATGAGGGATATCAGGGAGAAGTCCAGGATC
TGATGGAGTACTGTGCTCGTGATGTGTGGGCCACCTTTGAGGTTTTCCAGCAGCAGCTGCCGCTCTTCTT
GGAGAGGTGTCCCACCCAGTACTCTGGCTGGCATGCTGGAGATGGGTGTCTCTACCTGCCTGTCAAC
CAGAACTGGGAGCGGTACCTGACAGAGGCACAGAGCACATATGAGGAAGTCCAGCGGGAGATGAAGAAGT
CGCTGATGGAGCTGGCTAATGATGCCTGCCAGTTGCTCTCAGGAGAGAGGTACAAAGAAGACCCTTGCT
CTGGGACCTAGAATGGGACTTGCAGGAATTAAGCAGAAAAAGGCAAGAAGGTGAAGAAGACAGCCTCA
GCCAGCAAGTTGCCATCGAGGGAGCTGGGCCCTTTGGGATCCCATGGATCAGGAAGATCCTGGACCAC
CCAGTGAGGAGGAGGAGCTTACGAAAAATAATGGCCACACCCGTTTACAGCAGCTGAAGAGCACAC



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AGACCTCCTGCCTAAGCGACCCCAACACCTTCCTGGACACCCTGGGTGGTACCGGAACTCTGCCCTCGG
 CTAGATGACCCTGCATGGACTCCGGGCCAGCCTCCTCAGCCTGCAATGCGGGTCACTCCTAAGCTCA
 TGGCACTGACCTGGGATGGTTTTCTCTACACTACTCAGACTCTCATGGTTGGGGTACCTGGTGCCTGG
 GCGGCGGGATAATCTGACTGAGCTGCCAGTGAGCCCCACTGAGGAGTCACTGCGGTGACCTGCCCTAC
 AGAGCCATCGAGTCTTTGTACAGGAGGCACTGTCTTGACCAGGGCAAGCAGCAGCTGGAGACCCAGGAGA
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 AGATGTGGAGGCTGAGGCCACAGTGGAGAGTTCAGGGCTGAGTCAGCCCCAGTTCGGCTACTGCTTGT
 GCCCCAAAACAGCCAGCCACTTATCACCATGGCAACGGACCTTATAATGATGTGGATATCCCGGTT
 GCTGGTTTTCAAGCTGCCTCACAAGGATGGTAACTACAATGTGGTGTAGTCCCTTGGCAAAGATT
 CCTGCCAAGATGGAAGACGGCACTCTGCAGGCTGGCCAGGGGTGCCAGGGGACCTCGTGCCCTGGAA
 ATAATAAAATGATTTCTTTTGGAGGAATGCTCATAAACGCATCAGCTCCAGATGGTGGTATGGCTCC
 CCAGGTCACTCTGCCCGGGCTGTGACCAGGCACCCAGCTTTGATGAGGAAAGCCACTATGGGGCCAT
 CCTGCCAGGTGGTACTGCTGGCACCATCACCCGTCGCGCTGTGGAGCCACGTGGCTACTGCCAGC
 AATGCTCGGCTGACCGGTAGGCACTGAGTTGAAAGCCATGGTGCAGGCTCCACCTGGCTATGCTCTT
 TGGGTGCTGATGTGGACTCACAGAACTGTGGATCGCAGCCGTTCTTGGAGATGCTCACTTGTGGGAT
 GCATGGCTGCACGGCCTTTGGCTGGATGACTCTCAGGGCAGGAAGAGCAGAGGCACTGATCTGCACAGT
 AAGACAGCCGCACTGTGGGCATCAGTCGTGAGCACGCCAAAGTCTTCAACTACGGCCGATCTACGGGG
 CTGGGCAGTCTTTGCCGAGCGCTGCTGATGCAGTTCACCACAGGCTCTCAAGGCAGGAGGCACTGA
 CAAGGCCAGCAGATGTACGCTGTACGAAAGGCTGCGCCGATACCGGCTCTCAGATGATGGTGAATGG
 CTGGTGAAACAGTTAAATGTTCTGTGGACAGGACAGAAGACGGCTGGGTTCCCTACAAGATCTTCGAA
 AGATCCGAAGAGAAGCTCAAGGAAGTCTCGATGGAAGAAGTGGGAGGTAGTCACTGAACGAGCATGGAC
 AGGGGTACGGAGTCAGAAATGTTAATAAGCTGGAGAGCATTGCCATGTCTGACACACCACGCCACCCCA
 GTGCTGGGCTGCTGCATCAGCAGAGCCTTGGAGCCCTCGTTTCCAGGGAGAGTTTATGACCAGTCGTG
 TGAATTGGGTGGTACAGAGCTCTGCTGTGGACTACTTACACCTCATGCTTGTGGCCATGAAGTGGCTGTT
 TGAGGAATTTGCCATTGATGGGCGCTTCTGCATCAGCATTCCATGATGAGGTGCGTACTTGGTACGTGAG
 GAGGACCCTACCGTGTGCCCTGGCACTGCAGATCACCAATCTCCTGACCAGGTGCATGTTTGCCTACA
 AGCTGGTCTGAATGACCTGCCAGTCAGTTGCCTTTTTCAGTGCAGTAGACATTGACCAGTGCCTCAG
 GAAGGAAGTGACCATGGACTGTAAACTCCTTCTAACCAACTGGGATGGAAAGGAAATACGGGATCCC
 CAGGGTGAAGCACTGGATATTTACCAGATAATTGAACTACCAAAGGCTCCTTGGAAAACGAAGCCAGC
 CTGGACCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_053528

Insert Size:

3651 bp

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).

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_053528.1](#), [NP_445980.1](#)

RefSeq Size: 3651 bp

RefSeq ORF: 3651 bp

Locus ID: 85472

UniProt ID: [Q9QYV8](#)

Cytogenetics: 1q31

Gene Summary: exhibits DNA polymerase activity; may mediate the final step of mitochondrial DNA repair [RGD, Feb 2006]