

Product datasheet for **MR216884**

Polg2 (NM_015810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polg2 (NM_015810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR216884 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCTGCGGTGGCGGCCAGGGCCTGCCCGAGGGCCTGCAGGTGCTGGTGTCCGGGTACGCGGGT
 CCGCAGATGGGACGCAGCAGCCTGACGCCCCGAGCATGCGGTGGCCCGGAGGGCCTGGTAGACCTCTG
 CCGGAGGAGGCACTTTCTCAGCGGGACGCCGAGCAGCTCAGCACGGCTGCTCTGCTGAGCGGGTCCAC
 GCGCGCTTTGGACCTTTGGGTGTAGAGTTACGAAAGAACCTAGCCTCACAGTGGTGGTCTCTATGGTGG
 TGTTCCAGGAGCAGGTCTTCGCGGTGGACTCCCTCCACCAGGAGCCGGGCTCTTCGAGCCGAGGGACAG
 TGCCTTCAGTGTAGTCTCCAGAAAGTACGCGAAATCTTGAAGACAGAGAGCCGAGTAAGGAACAG
 CTAGTGGCATTCTTGAAGTATTAAAAAATCTGGGAACTACGGGCGACTCTTCTCACGGTGCCT
 TGGAGCACTATGTTAATGCCTGGATCTGGTAAACAGAAAGCTACCTTTCGGTCTTGCTCAGATTGGAGT
 CTGTTTCCATCCTGTTTGAACAGCAATCAGACACCCAGCAGTGTACAAGAGTTGGTAAAAGACGGAA
 GCTTCCTTGGTATGGTTTACTCCACAAGGACTTCGAGCCAGTGGCTTGATTTCTGGTTGCGTCATCGGC
 TTCTGTGGTGGAGAAAGTTTGTATGAGTCCCTCTAACTTCAGCAGCGCTGATTGTCAGGATGAATTGGG
 ACGCAAGGGAAGCAAACCTTACTACAGCTTCCCCTGGGAAAGGAGCCAAATAGAAACCTGTGGAACCTA
 GGAGATCAAGAACTCCTACACACATATCCTGGAATGTGTCTACGATACAGGGTCGAGATGGGCGGAAAA
 ACGTGGTTCCTTGCCTTGTCTGTAAGTGGGACGTAGACCTGGGCACGCTGGCTTACCTCTACGATTC
 CTTCCAGCTGGCAGAACTCCTTTGCCAGGAAGAAGAGCCTCCAGAGAAAGGTGCTTAACTTCACCT
 TGTTTAGCCCTATTAAGGTCGCTTTGGATGTGGGAAAGGCCAACGGTAGAACTCCGACAGGTTTGT
 AAGGGCTACTTAATGAGTTACTAGAAAATGGGATTTCTGTGGCCTGGCTATTTCGAAACTGTCCATTC
 CTATTAGAGCAACTCCATTCAAAGTACGATGAGATGAGTGTCTCTTCTCAGTTCTGGTCACTGAGACT
 ACGCTGGAATAATGGGCTAATCCAGCTGCGGAGCAGAGACACCAGATGAAGGAAATGATGCACATATCCA
 AGCTGAGAGACTTCTGGTCAAGTACCTAGCGTCAGCTAGCAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216884 protein sequence
 Red=Cloning site Green=Tags(s)

MRCGGGARACRRACRCWLSGYAGPADGTQQDAPEHAVAREALVDLCRRRHFLSGTPQQLSTAALLSGCH
 ARFGPLGVELRKNLASQWWSSMVVFREQVFAVDSLHQEPGSSQPRDSAFRLVSPESIREILQDREPSKEQ
 LVAFLENLLKTSGLRATLLHGALEHYVNLCLDLVNRKLPFGLAQIGVCFHPVSNSNQTPSSVTRVGEKTE
 ASLVWFPTPTRTSSQWLDLFWLRHRLWWRKFAMSPSNFSSADCQDELGRKGSKLYSFPWGKEPIETLWNL
 GDQELLHTYPGNVSTIQGRDGRKNVPCVLSVSGDVDLGTLAYLYDSFQLAENSFARKKSLQRKVLKHP
 CLAPIKVALDVGKPTVELRQVCQGLLNELLENGISVWPYSETVHSSLEQLHSHKYDEM SVLFSVLVTET
 TLENGLIQLRSRDTTMMKEMHISKLRDFLVKYLASASNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_015810

ORF Size: 1380 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_015810.1](#), [NM_015810.2](#), [NP_056625.2](#)
RefSeq Size: 1585 bp

RefSeq ORF: 1380 bp

Locus ID: 50776

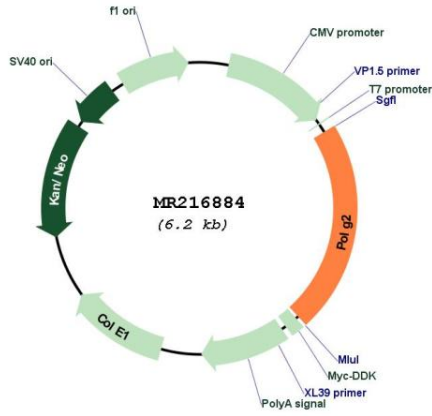
UniProt ID: [Q9QZM2](#)

Cytogenetics: 11 E1

MW: 51.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR216884