

Product datasheet for **MC218067**

Primpol (NM_001001184) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Primpol (NM_001001184) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Primpol
Synonyms:	BC065112; Ccdc111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218067 representing NM_001001184
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGAGAAATGGGAGCAAGGGTGAAGCAGATTGAAGAGCGGCATCCCACTATGAGAGGAAGCCAT
 TGCTTCCGTGTACAGACCAAGACTGGCCAAGCCAGAAGAACCATCCTCCATTTGGAAGCTATTTACCG
 TCAGAATCAAGCTTTTAAATTTTGTAAAAAGCTGTAAGAGAGCGTTCACGTATTTGCTTTGGAGTGCAAA
 AGGGGAAATGGACAACGTATTTACCTTGTAACTGCTATGCCAACTTTGGTTTTACTATAAGACCCGGA
 AAACCTCTTGCACTGCTATGAAGTTATTCCTGAGAATGCTGTGTGCAAGCTTTATTTGATTTAGAATT
 TAACAAATGGCCAACCCAGGAGCTGATGGGAAGATGATGGTTCATTGCTCATAACAGCATGTTTGTAAA
 GCCTTGAGGAGTTTTACAATGTTCACTGCTCAGCCGAAGATGTTTTCAACCTGGATTCCAGCACTGAAG
 AGAAATTTAGCCGACACCTAATATTTCACTCCACAATGTGGCATTAAAGATAACAGGCATGCTGGTAA
 TTTTGTGAGAAAAATTTGCAACCTGCTCTTCACTTGATTGCCGAGGATGATGAAGCTAAGTCCCAGAG
 GCGGTGGGCCAGGACGCCTCCGGTTTTCTGTTACACCATTAAAACAAGAGATTTAGAGGCCCGGAGA
 AGGTGGGGTTGCCTAAGCAGTGTGACCCCGATCTTTCACTTTTAGTTGTAAAAATCACATGGGAGAAAA
 ATGCCTTTTTGTGGATCTAGGAGTGTATACAAAAACAGAACTTTGCACTGTATCAGTCATCCAAAATA
 GGAAAGTGTGTCTTTGGAGGTTGCTGAAGATAACAGATTTATCCAAAACAGTCAAAAGATATTTCTG
 AGGAAAACCAATTTCCCTATCTCCCTGGTGAGCAATGTCAGATTCTCAGATACTGCGAGTTCTCAC
 ATGCCACCATCTCAGACTAAACGAAAGCGGGCTGAGTGTTTAACAGTACTGGCACTTCAGTGGAGTCC
 ATGAAGGCTTCCAGGGCTCCCATACCTGAGGTTGACCAATTTGTTCTTTCTTTGGTGAACAAACATG
 ACATTAAGGAGGATTCCGGCTTGGAACTACTTTTTCCCGGAAGAATTACTGGTTTATGATATATGCAA
 ATACCGCTGGTGTGAAAACATTGGAAGAGCCCAAGAGTAATAATATAATGATTCTGGTTGATCTGAAG
 AATGAAGTTTGGTATCAGAAATGCCATGACCCTGTCTGTAAAGCACAAAACCTCAAACTACCTGTTCCC
 CATTACCACTGAAGTAAGTCTGCTATTTCTTCTGAAAGATGAAGACTTCACTTCTGGAGAAACAGATGA
 CACCAGCACCTCACTGACCAAGGATTCTCAAACCCCGCCATCCTGCAACTGTGACCCGGCGGGCTTTCT
 GCCGCTGCCTGGGATGACGAAGATGACGCCTTTTCTTAGAAGCGACAGAAGATGCTGAATTTGCTGACG
 CTGCAGATAAGAGCCTTGGTTCAATGGATGATATCTCTGATGAACTAATTATAGAAGCTTACAGAATAG
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001001184

Insert Size: 1614 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_001001184.1](#), [NP_001001184.1](#)

RefSeq Size: 3813 bp

RefSeq ORF: 1614 bp

Locus ID: 408022

UniProt ID: [Q6P1E7](#)

Cytogenetics: 8 B1.1

Gene Summary: DNA primase and DNA polymerase able to initiate de novo DNA synthesis using dNTPs. Shows a high capacity to tolerate DNA damage lesions such as 8oxoG and abasic sites in DNA. Involved in translesion synthesis via its primase activity by mediating uninterrupted fork progression after programmed or damage-induced fork arrest and by reinitiating DNA synthesis after dNTP depletion. Required for mitochondrial DNA (mtDNA) synthesis, suggesting it may be involved in DNA tolerance during the replication of mitochondrial DNA. Has non-overlapping function with POLH (By similarity).[UniProtKB/Swiss-Prot Function]