

Product datasheet for **RG211447**

DNA polymerase mu (POLM) (NM_013284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase mu (POLM) (NM_013284) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNA polymerase mu
Synonyms:	Pol Mu; Tdt-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211447 representing NM_013284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCCAAAACGGCGGAGCGGGTCCGCTAGCGGCGATGCCGCTTCTCCACGCCGCCCT
 CGACGCGCTTCCCGGAGTCGCCATCTACTGGTCGAGCCTCGCATGGGTCGAGCCGCCGGCCTTCT
 CACAGGCCTGGCGGCTCCAAGGCTTCCGCGTCTTGACGCCTGCAGCTCCGAAGCGACACATGTTGTG
 ATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGTGGCAGGAGCGCAGGATGGCAGCTGCTCCCCGGGTT
 GCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGAGCTGGGCAGCCTGTACTGT
 GGAGTGGCGCACCGCTGGAGGTGGTGGGCCAAGGAAGGGGCTCTGAGCCCAGCATGGATGCCTGCC
 TATGCCTGCCAGCGCCCTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTGGAGATACTGG
 CCGAGGCAGCAGGCTTTGAAGGCAGTGAAGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTGCTCAA
 GGCCCTTCCAGCCCTGTACAACCTGAGCCAGCTGCAGGGGCTTCCCCTTTGGAGAACACTCCTCT
 AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGT
 ACCAGACCATGAAGCTCTTACCAGATCTTCGGGGTCCGGTGTGAAGACTGCTGACCGGTGGTACCGGGA
 AGGACTGCCAACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAAACAGCAGAAAGCGGGGCTC
 CAGCACCACCAGGACCTGAGCACCCAGTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGG
 AAGCTGTGGGGCAGGCCCTGCCTGGGGCCACCGTCACGCTGACCGGGCGGCTTCCGAGGGGGAAGTTGCA
 GGGCCATGACGTGGACTTCTCATCACCCACCCCAAGGAGGTGAGGAGCGGGGCTGCTGCCTAGAGTG
 ATGTGCCGCTGCAGGACCAGGGCCTCATCCTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCTA
 CCCGCTGGCCAAACAGAGCCACATGGACGCTTTTGGAGAGAAGTTTCTGCATTTTCCGCCTACCACAAG
 TCCAGGGGCTGCTGTGGGGGATCCACGAGGCCCTGCCATCCTGGAAGGCCGTGAGAGTGGACTTGGTA
 GTTGACCCGTCAGCCAGTTCCTTTCCGCTGCTCGGTTGGACTGGCTCCAAGCTTTTCCAGCGGGAGC
 TGCGCCGCTTCCAGCCGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGGCTGTTTGACCCGAGCAGAA
 GACATTTTCCAAGCGGCTTCCAGAGGAAGACATCTTCCAGACCTGGGCTTGGATACCTTCTCCAGAG
 CAGAGAAACGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211447 representing NM_013284
 Red=Cloning site Green=Tags(s)

MLPKRRRARVGSPPSGDAASSTPPSTRFPGVAIYLVEPRMGRSRRRAFLTGLARSKGFRVLDACSSEATHV
 MEETSAAEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQPVPVECRHRLEVAGPRKGPLSPAWMPA
 YACQRP TPLTHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKALPSPVTLSQLQGLPHFGEHSS
 RVVQELLEHGVC EEVRRRSERYQTMKLF TQIFGVGK TADRWYREGLRTLDDLREQPQKLTQQQKAGL
 QHHQDLSTPVLRSVDALQQVVVEAVGQALPGATVTLTGGFRRGKLQGHVDVFLITHPKEGQEA GLLPRV
 MCRLQDQGLILYHQHQHSCCESPTRLAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLV
 VAPVSQFPFALLGWTGSKLFQRELRRFSRKEKGLWLNHGLFDPEQKTFQAA SEEDIFRHLGLEYLPE
 QRNA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013284

ORF Size: 1482 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_013284.4](#)

RefSeq Size: 2589 bp

RefSeq ORF: 1485 bp

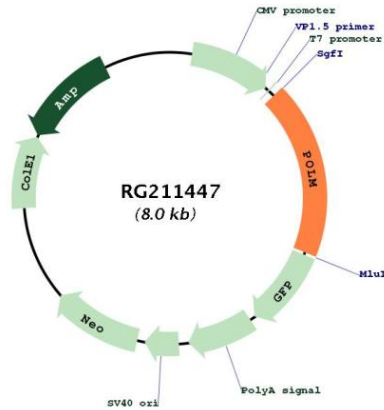
Locus ID: 27434

UniProt ID: [Q9NP87](#)

Cytogenetics: 7p13

Domains:	POLXc
Protein Families:	Druggable Genome
Protein Pathways:	Non-homologous end-joining
Gene Summary:	Gap-filling polymerase involved in repair of DNA double-strand breaks by non-homologous end joining (NHEJ). Participates in immunoglobulin (Ig) light chain gene rearrangement in V(D)J recombination.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211447