

## Product datasheet for **RG238341**

### DNA polymerase mu (POLM) (NM\_001284331) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase mu (POLM) (NM_001284331) 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)
ORF Nucleotide Sequence:	>RG238341 representing NM_001284331. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCCCAAACGGCGGCGAGCGGGTCCGCTAGCGGCGATGCCGCTTCTCCACGCCGCC
TCGACGCGCTTCCGGGAGTCGCCATCTACCTGGTCGAGCCTCGCATGGTTCGACGCCGCCGGCCCTC
CTCACAGGCTGGCGGCTCAAAGGCTCCGCGTCTTGACGCTGCAGCTCCGAAGCGACACATGTT
GTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGCAGGATGGCAGCTGCTCCCCG
GGTTGCACCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGAGCTGGCAGCCTGTA
CCTGTGGAGTGCCGGCACCGCTGGAGGTGGTGGCCAAAGGAAGGGCCTCTGAGCCAGCATGGATG
CCTGCCTATGCCTGCCAGCGCCCTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTGGAG
ATACTGGCCGAGGAGCAGGCTTTGAAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCG
GTGCTCAAGGCCCTTCCAGCCCTGTACAACCTGAGCCAGCTGCAGGGGCTTCCCACTTTGGAGAA
CACTCCTCTAGGGTTGTCCAGGAGCTGTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGATTCGGCGC
TCAGAGAGGTACCAGACCATGAAGCTCTCACCCAGATCTTCGGGGTCCGTGTGAAGACTGCTGACCGG
TGGTACCGGAAGGACTGCGAACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCAACAGCAG
AAAGCGGCACCACCAGGACCTGAGCACCAGTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGT
GGAGGAAGCTGTGGGCGAGGCCCTGCCCTGGGGCCACCGTACGCTGACCGGCGGCTTCCGAGGGCCTC
ATCCTGTACCACCAGCACAGCAGCTGCTGTGAGTCCCTACCGCCTGGCCCAACAGAGCCACATG
GACGCTTTTGAAGAAAGTTTCTGCATTTTCCGCTACCACAACCTCCAGGGGCTGCTGTGGGGGATCC
ACGAGGCCCTGCCATCCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCCGTGAGCCAGTTCCT
TTCGCCCTGCTCGTTGGACTGGCTCCAAGCTTTCCAGCGGAGCTGCGCCGCTTCCAGCCGAAGGAG
AAGGCCCTGTGGCTGAACAGCCATGGGCTGTTGACCCGAGCAGAAGACATTTTCCAAGCGGCTTCA
GAGGAAGACATCTCAGACACCTGGGCTTGGTACCTTCTCCAGAGCAGAGAAACGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online >](#)

**Protein Sequence:** >Peptide sequence encoded by RG238341  
 Blue=ORF Red=Cloning site Green=Tag(s)

MLPKRRRARVGSPPGDAASSTPPSTRFPGVAIYLVEPRMGRSRAFLTGLARSKGFRVLDACSSEATHV  
 VMEETSAAEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQVPVVECRHRLEVAGPRKGPLSPAWM  
 PAYACQRPTPLTHHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKALPSPVTTLSQLQLPHFGE  
 HSSRVQELLEHGVCEEVRRSERYQTMKLFQIFGVGVKADRWYREGLRTLDDLREQPQKL TQQQ  
 KAAPPGEHPSPAVRRCRPAAGGGGSCGAGPAWGHRRHADRRLPQGLILYHQHSCCESPTRLAQQSHM  
 DAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAVPSQFPFALLGWTGSKLFQRELRFRSRKE  
 KGLWLNHSHGLFDPEQKTFQAASEEDIFRHLGLELYLPPEQRNA  
**TR**TRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001284331

**ORF Size:** 1371 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](#)

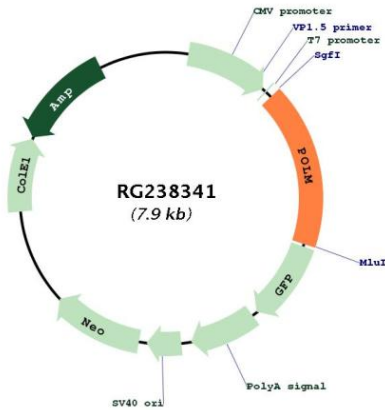
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001284331.1](#), [NP\\_001271260.1](#)

RefSeq Size:	2714 bp
RefSeq ORF:	1374 bp
Locus ID:	27434
UniProt ID:	<a href="#">Q9NP87</a>
Cytogenetics:	7p13
Protein Families:	Druggable Genome
Protein Pathways:	Non-homologous end-joining
MW:	50.9 kDa
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 RG238341