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Product datasheet for RC238341

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:	Myc-DDK
Symbol:	POLM
Synonyms:	Pol Mu; Tdt-N
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238341 representing NM_001284331
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCCCCAAACGGCGGCGAGCGCGGGTCGGGTCCCCTAGCGGCGATGCCGCTTCCTCCACGCCGCCCT
CGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTCGAGCCTCGCATGGGTCGCAGCCGCCGGGCCTTCCT
CACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCCTTGACGCCTGCAGCTCCGAAGCGACACATGTTGTG
ATGGAAGAGACCTCAGCAGAGGAGGCCGTCAGCTGGCAGGAGCGCAGGATGGCAGCTGCTCCCCCGGGTT
GCACCCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGAGCTGGGCAGCCTGTACCTGT
GGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCCTCTGAGCCCAGCATGGATGCCTGCC
TATGCCTGCCAGCGCCCTACGCCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTGGAGATACTGG
CCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCCGCCTCCTCACCTTCTGCAGAGCAGCCTCGGTGCTCAA
GGCCCTTCCCAGCCCTGTCACAACCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGT
ACCAGACCATGAAGCTCTTCACCCAGATCTTCGGGGTCGGTGTGAAGACTGCTGACCGGTGGTACCGGGA
AGGACTGCGAACCTTAGATGACCTCCGAGAGCAGCCCCAGAAACTAACCCAACAGCAGAAAGCGGCACCA
CCAGGACCTGAGCACCCCAGTCCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTG
GGGCAGGCCCTGCCTGGGGCCACCGTCACGCTGACCGGCGGCTTCCGCAGGGCCTCATCCTGTACCACCA
GCACCAGCACAGCTGCTGTGAGTCCCCTACCCGCCTGGCCCAACAGAGCCACATGGACGCTTTTGAGAGA
AGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGCTGCTGTGGGGGGATCCACGAGGCCCTGCCCAT
CCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCCGTCAGCCAGTTCCCTTTCGCCCTGCTCGGTTG
GACTGGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGGAAGGAGAAGGGCCTGTGGCTGAAC
AGCCATGGGCTGTTTGACCCGGAGCAGAAGACATTTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGAC
ACCTGGGCCTTGAGTACCTTCCTCCAGAGCAGAGAAACGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

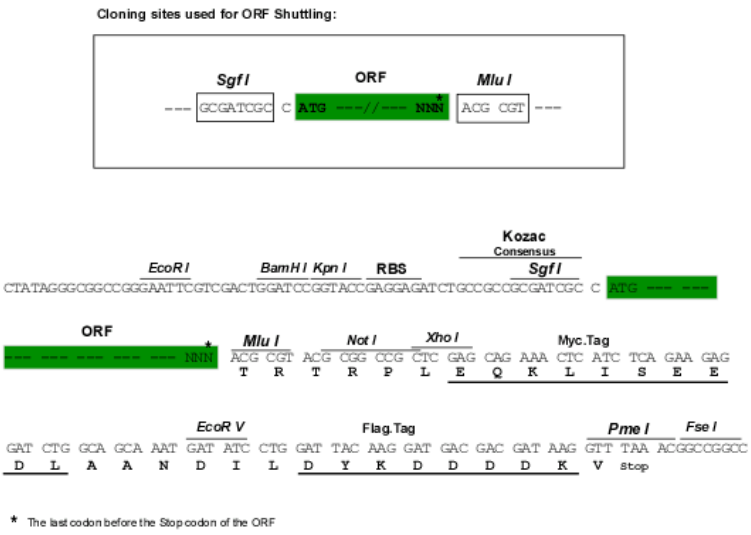
>RC238341 representing NM_001284331
Red=Cloning site Green=Tags(s)

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLVEPRMGRSRRAFLTGLARSKGFRVLDACSSEATHVV
MEETSAEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQPVPVECRHRLEVAGPRKGPLSPAWMPA
YACQRPTPLTHHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKALPSPVTTLSQLQGLPHFGEHSS
RVVQELLEHGVCEEVERVRRSERYQTMKLFTQIFGVGVKTADRWYREGLRTLDDLREQPQKLTQQQKAAP
PGPEHPSPAVRCRCPAAGGGSCGAGPAWGHRHADRRLPQGLILYHQHQHSCCESPTRLAQQSHMDAFER
SFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAPVSQFPFALLGWTGSKLFQRELRRFSRKEKGLWLN
SHGLFDPEQKTFFQAASEEDIFRHLGLEYLPPEQRNA

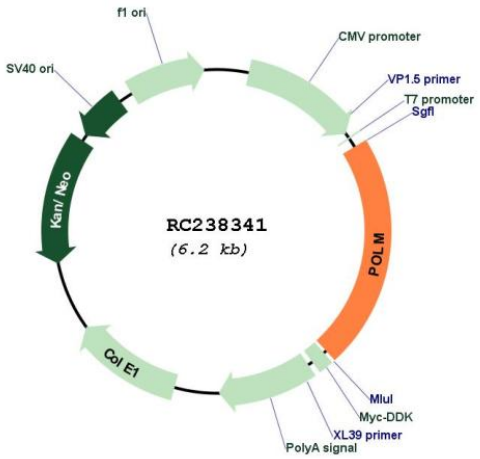
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).

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_001284331.1, NP_001271260.1
RefSeq Size:	2714 bp
RefSeq ORF:	1374 bp
Locus ID:	27434
UniProt ID:	Q9NP87
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]