

Product datasheet for **SC127799**

DNA polymerase mu (POLM) (NM_013284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase mu (POLM) (NM_013284) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNA polymerase mu
Synonyms:	Pol Mu; Tdt-N
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013284, the custom clone sequence may differ by one or more nucleotides

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ATGCTCCCAAACGGCGGCGAGCGGGTTCGGTCCCCTAGCGGCGATGCCGTTCTCCACGCCCT
CGACGCGCTTCCCGGAGTCGCCATCTACCTGGTCGAGCCTCGCATGGGTCGACGCCCGCGGCTTCT
CACAGGCTGGCGGCTCCAAAGGCTTCCGCGTCTTGACGCTGCAGCTCCGAAGCGACACATGTTGTG
ATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGTGGCAGGAGCGCAGGATGGCAGCTGCTCCCCGGTT
GCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGAGCTGGCAGCCTGTACCTGT
GGAGTGGCGGCACCGCTGGAGGTGGCTGGGCCAAGGAAGGGCCTCTGAGCCAGCATGGATGCCTGCC
TATGCCTGCCAGCGCCCTACGCCCTCACACACCAACACTGGCCTCTCCGAGGCTCTGGAGATACTGG
CCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTGCTCAA
GGCCCTTCCCAGCCCTGTCAACCCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACAACCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGT
ACCAGACCATGAAGCTCTTACCCAGATCTTCGGGGTTCGGTGTGAAGACTGCTGACCGGTGGTACCGGGA
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TCCAGGGGCTGCTGTGGGGGATCCACGAGGCCCTGCCATCCTGGAAGGCCGTGAGAGTGGACTTGGTA
GTTGCACCCGTCAGCCAGTTCCCTTTCCGCCTGCTCGGTTGGACTGGCTCCAAGCTTTTCCAGCGGGAGC
TGCGCCGCTTCCAGCCGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGGCTGTTTGACCCGGAGCAGAA
GACATTTTCCAAGCGGCTTCCAGAGGAAGACATCTTCCAGACCTGGGCCTTGAGTACCTTCTCCAGAG
CAGAGAAACGCCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013284 unedited
 TCCCCGCCCTTGCCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGA
 GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT
 TCGGCACGAGGGTTGCTCCGCGCTGCTGGAGGCTGTCGTCCTCCAAATGCTCCCAAACGGC
 GGGAGCGCGGGTCGGTCCCCTAGCGCGATGCCGCTTCTCCACGCCGCCCTCGACGC
 GCTTCCCGGAGTCGCCATCTACCTGGTCGAGCCTCGCATGGGTGCGAGCCGCCGGGCT
 TCCTCACAGGCCGCGCGCTCCAAAGGCTTCCGCGCTTACGCGCTGCAGCTCCGAAG
 CGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCGTCAGCTGGCAGGAGCGCA
 GGATGGCAGCTGCTCCCCGGGTTGCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAA
 CAGAGAGCCTGGGAGCTGGGAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGG
 CTGGGCCAAGGAAGGGGCTCTGAGCCAGCATGGATGCCTGCCTATGCCTGCCAGCGCC
 CTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTGGAGATACTGGCCGAGG
 CAGCAGGCTNNTGAGGCAGTGAGGGCCGCTCCTCACCTTCTGCAGAGCAGCCTCGGTGC
 TCAAGGCCCTCCAGCCCTGTACACCCTGAGCCAGCTGCAGGGGCTTNCCTCACTTGG
 AGAACACTCCTCTAGGGTTGTCCAGGAGCTGCTGGACCATGNANTGTGTGAAGAAGTGG
 AAGAGATCGCGCTCANAGAGGCTCAGCACACCAGNACCGACACCCAGTCTGCGTCCGAG
 TAAAGCCTGCACAGTTGTGAGACTTGGGGCCCCCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013284 unedited
 GCCATGTACCGCGCCCCGATTCTAGNAGTCGAGTTTTTTTTCTTTTTTTTTTGCATGTT
 TTCAAATATTTTTAATGTGATGAGTGGTCTGGGAAATCCTCGCCTAACAAAGTGGCTT
 TTGATTCAAGGCCTGAAGAAGGGGAGGGCCACTCCAGGTAGATGACATGGCCAGGGCAA
 AACCTGAGGCCAGAGTGTGCTGGGATATGAGGGACGTGGAGGGCACCCATGTCCAGCC
 CACCTCAGTGCTTCTGCCTCAGTGAGAAGGGGAGGGAGTTGGCCACAAGGGGGCTGGGT
 GCCTCAAATAAGAAGCCGGTGAAGTCAACCATCTCGGGGCCACGTGGGGCTGGAGAGATTC
 CATATCCCAGGGCTATGATGTGGCCTTACGGTTTCCGACCTTCTCGGCTCTGCAACG
 CGCAGCGGCCCGGTTTACCCACCTGACGGCCTCGGCCCTAGAGCTCTGCCTAACGCGC
 GCGTCTTATTCTGGCGCGCTCGCCGCCGTGACCCGCTCCTCCCACTCGTTCCCTCTT
 TCCCTAGTCAGCTCGTCACGCACCGCGCTCCTTTGCTCCGCACCCTCACGGTCTCTGG
 TCGGGCCCGCCAGCTTACGCGGCTGGGTGTAATGCTGCCGCTTGGCGATCCTCAGCC
 CCCGCGCTGCCCTCGCGTCACGCGGCTCAGCTATCACCACAAGCCCTTGACGTAGTAA
 TTTGCACTCTTCTCTAGTAACGCGTGTCCCACTACTTCGCTCGAAACTTTCTGTTCCC
 CTCAGTTCCTCTCTCACTCGGCTTATCGATAACCCGCTCGTGGATCGCCTTCCAGGATAC
 CCTTCGCGTCTACTCCGGAACCCAGTCTCTCCCTTTCAGATCCATCAACTTAACACC
 CTGCGTTGCCTTATTCACCTCTGCAGATCN

Restriction Sites:

NotI-NotI

ACCN:

NM_013284

Insert Size:

2500 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_013284.1](#), [NP_037416.1](#)

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]

Transcript Variant: This variant (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.