

Product datasheet for **SC336235**

DNA polymerase mu (POLM) (NM_001284331) Human Untagged Clone

Product data:

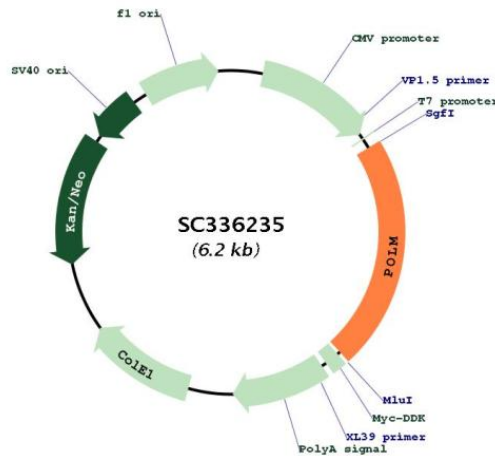
Product Type:	Expression Plasmids
Product Name:	DNA polymerase mu (POLM) (NM_001284331) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLM
Synonyms:	Pol Mu; Tdt-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336235 representing NM_001284331. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GAGGAAGACATCTCAGACACCTGGGCTTGAAGTACCTTCTCCAGAGCAGAGAAACGCCTGA
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TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001284331

Insert Size: 1374 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_001284331.1](#)

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: 50.4 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]

Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This results in a isoform (3) that is shorter, compared to isoform 1.