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Product datasheet for SC336520

DNA polymerase mu (POLM) (NM_001284330) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA polymerase mu (POLM) (NM_001284330) 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)

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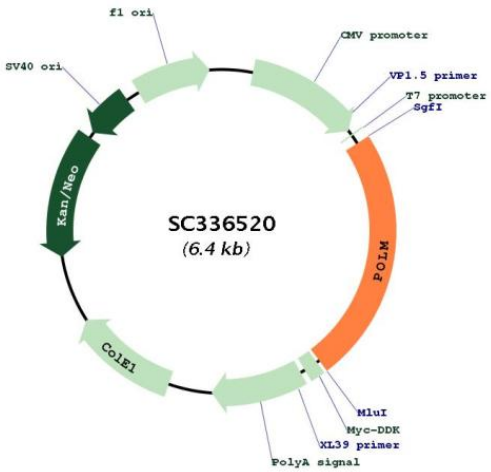
Fully Sequenced ORF:

>SC336520 representing NM_001284330.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCCCCAAACGGCGGCGAGCGCGGGTCGGGTCCCCTAGCGGCGATGCCGCTTCCTCCACGCCGCCC
TCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTCGAGCCTCGCATGGGTCGCAGCCGCCGGGCCTTC
CTCACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCCTTGACGCCTGCAGCTCCGAAGCGACACATGTT
GTGATGGAAGAGACCTCAGCAGAGGAGGCCGTCAGCTGGCAGGAGCGCAGGATGGCAGCTGCTCCCCCG
GGTTGCACCCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGAGCTGGGCAGCCTGTA
CCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCCTCTGAGCCCAGCATGGATG
CCTGCCTATGCCTGCCAGCGCCCTACGCCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTGGAG
ATACTGGCCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCCGCCTCCTCACCTTCTGCAGAGCAGCCTCG
GTGCTCAAGGCCCTTCCCAGCCCTGTCACAACCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAA
CACTCCTCTAGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGC
TCAGAGAGGGCTCCAGCACCACCAGGACCTGAGCACCCCAGTCCTGCGGTCCGATGTAGATGCCCTGCA
GCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTGCCTGGGGCCACCGTCACGCTGACCGGCGGCTTCCG
CAGGGCCTCATCCTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCTACCCGCCTGGCCCAACAG
AGCCACATGGACGCTTTTGAGAGAAGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGCTGCTGTG
GGGGGATCCACGAGGCCCTGCCCATCCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCCGTCAGC
CAGTTCCCTTTCGCCCTGCTCGGTTGGACTGGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGC
CGGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGGCTGTTTGACCCGGAGCAGGGAAGCAGCAGTGGC
AAGACTCCTAGGTCACGGAAGTCCTGCTTCTGTTGCAGAAGACATTTTTCCAAGCGGCTTCAGAGGAAG
ACATCTTCAGACACCTGGGCCTTGAGTACCTTCCTCCAGAGCAGAGAAACGCCTGAGCCTGCCTGTGTC
CCCCACTTCCACTCAGGAAATTGGGCTGCCCCCAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTG
CCCCCTGACCCCCACCTTCACCCCTCCCCGCCAAGGCCTGGCTCTTCCGGAGGTCAATTGTGCCTGCAG
GATCAGTTGAGCCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGTGGGAGCCCTCAGTGCCAGCCTCATC
ACTGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001284330

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Insert Size:	1527 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_001284330.1
RefSeq Size:	2638 bp
RefSeq ORF:	1527 bp
Locus ID:	27434
UniProt ID:	Q9NP87
Cytogenetics:	7p13
Protein Families:	Druggable Genome
Protein Pathways:	Non-homologous end-joining
MW:	55.1 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 (2) has multiple differences in the coding region, compared to variant 1, one of which results in a translational frameshift, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus and is longer than isoform 1.

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