

## Product datasheet for **MR207957**

### Polm (NM\_017401) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polm (NM_017401) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Polm
Synonyms:	A1462166; B230309I03Rik; Tdt-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207957 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTTCCGAAGCGACGGCGAGTGCAGCTGGGTCCCCACACAGCGCGGTAGCCTCTCCACGCCGCCCT  
 CGGTGGTGCCTTCCCGATGTGCCATCTACCTTGCAGAGCCGGAATGGGCCGAGCCGCCGGCCTT  
 CCTCACCCGCTGGCGCGTCCAAGGCTTCCGCGTCTAGATGCTTACAGCTCAAAGGTGACACATGTG  
 GTGATGGAAGGGACCTCAGCAAGGAGGCCATCTGCTGGCAGAAGAATGGATGCTCTCCACAGGCT  
 GCCACAGCCAGCTCTGCTAGATATTAGCTGGTTACAGAAAGCATGGCAGCTGGCAGCCTGTCCCTGA  
 GGAGGGCCCGCACACCTGGAGGTAGCTGAGCCCAGGAAGGAGCCCCAGTCTCAGCGTCGATGCCAGCT  
 TATGCCTGTCAGCGCCCCTCACCTCTCACACACCATAACACTCTCCTCTCAGAGGCTCTGGAGACGCTAG  
 CGGAGGCAGCGGGCTTCAAGCCAACGAGGGCCGCTTCTCTCCTTCTCCAGAGCGGCCCTCGGTGCTCAA  
 GTCCTGCCCCTGCCCTGTTGCATCTTTGAGCCAGCTGCATGGGCTGCCCTACTTTGGAGAACATTCCACT  
 AGAGTAATCCAGGAGCTGCTGGAGCATGGAACATGTGAAGAAGTAAACAAGTCCGTTGCTCAGAAAGGT  
 ACCAGACCATGAAGCTCTTACCAGGCTTTCGGGGTGGGGTGAAGACTGCCAACCCGGTGTACCAGGA  
 AGGACTACGAACCCTGGATGAGCTCAGAGAGCAGCCCCAGAGACTGACGCAGCAGCAGAAAGCAGGGCTC  
 CAATATTACCAGGACCTGAGCACTCCAGTTAGACGAGCTGATGCCGAGGCTCTGCAGCAGTTGATAGAGG  
 CAGCTGTGAGACAGACCTGCCCGGAGCCACTGTCACGCTGACTGGCGGTTTCCGAAGGGGGAAGTTACA  
 AGGCCATGATGTAGACTTCTTATCACCCACCCAGAGGAGGGCAAGAAGTAGGGCCGCTGCCAAAAGTG  
 ATGAGCTGCCTACAGAGCCAGGGACTCCACCATGGATGCTTTTGGAGGAGTTTCTGCATCTTGGGTTGCC  
 CCCACAACCTGCCGAGCGGACTCCACCATGGATGCTTTTGGAGGAGTTTCTGCATCTTGGGTTGCC  
 ACAACCCCAACAGGCAGCTTTAGCGGGGCCCTGCCTCCCTGCCCAACTGGAAAGCTGTGAGGGTAGAT  
 CTGTGGTACGCCCAGCAGCCAGTTCCCTTTGCCCTTCTGGGCTGGACTGGCTCCCAGTTCTTTGAGC  
 GGGAGCTACGGCGGTTACGCCGTCAAGAGAAGGGGCTGTGGCTTAACAGCCATGGGCTGTTTGATCCTGA  
 GCAGAAGAGAGTTTTCCATGCAACTTCTGAGGAAGATGTTTTGAGACTCCTGGGCCCAAGTACCTTCT  
 CCAGAGCAGAGAAATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207957 protein sequence  
 Red=Cloning site Green=Tags(s)

MLPKRRRVRAGSPHSASVSTPPSVVRFDPVAIYLAEPMRGRSRAFLTRLARSKGFRVLDAYSSKVTHV  
 VMEGTSAKEAICWQKNDALPTGCPQALLDISWFTESMAAGQPVPPEGRHHLEVAEPRKEPPVSASMPA  
 YACQRPSPLTHNTLLSEALETLAEAGFEANEGRLLSFSRAASVLKSLPCPVASLSQLHGLPYFGEHST  
 RVIQELLEHGTC EEVKQVRCSEYQTMKLFQVFGVGVKTANRWYQEGLRTLDELREQPRLTQQQKAGL  
 QYYQDLSTPVRRADAALQQLIEAAVRQTLPGATVTLGGFRRGKLQGHVDVFLITHPEEQEVEGPLPKV  
 MSCLQSQGLVLYHQYHRSHLADSAHNLRQRSSTMDAFERSFCILGLPQPQQAALAGALPPCPTWKAVRVD  
 LVVTPSSQFPFALLGWTGSQFFERELRRFSRQEKGLWLNHGLFDPEQKRVFHFATSEEDVFRLGLKYL  
 PEQRNA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_017401

ORF Size: 1491 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\\_017401.1](#), [NM\\_017401.2](#), [NP\\_059097.1](#)

RefSeq Size: 2943 bp

RefSeq ORF: 1491 bp

Locus ID: 54125

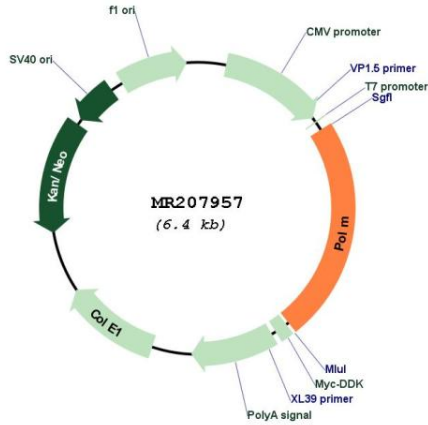
UniProt ID: [Q9JIW4](#)

Cytogenetics: 11 A1

**MW:** 55.5 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 MR207957