

Product datasheet for **MR209951**

Poli (NM_001136090) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poli (NM_001136090) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poli
Synonyms:	Rad30b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209951 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCTCCAACCCAGAATTAAGGACAGACCTTTAGGTGTGCAACAGAAATACTTGGTGGTTACCTGCA
 ACTATGAAGCCAGGAAACTGGGTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCTCA
 GCTGGTCTCGTGAACGAGAAGACCTGAGCCGTACAGAGAGATGTCCTATAAGGTCACAGAATTGTTG
 GAGGAATTTAGTCCAGCTGTTGAGAGACTTGGATTTGATGAAAATTTTGTGGATCTAACAGAAATGGTGG
 AAAAAAGACTCCAGCAGCTTCCAAGTGAGGAGGTTCCGTCAGTGACTGTGTTCCGCCATGTTTACAATAA
 CCAGTCTGTGAACCTACACAACATCATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATG
 CGGAAGCCATGTATAATCAGCTCGGGCTCACAGGCTGCGCCGGAGTGGCTCCTAACTCTTGGCAA
 AGTTAGTGTCTGGGGTTTTAAACCAAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCAT
 TCACAGTTTGAACCACATAAAGGAAATTCCTGGTATCGGCTATAAACTGCCAAGCGTCTCGAAGTTCTG
 GGAATCAATAGTGTTCATGATCTCCAAACCTTTCCAATCAAAACATTAGAAAAAGAATTAGGAATTGCAA
 TTGCTCAGCGTATCCAGCAGCTCAGTTTTGGAGAGGACAAGTCTCCCGTCACACCGTCAGGGCCACCACA
 GTCCTTTAGTGAAGAAGTACGTTTAAAAAGTGTCTCAGAAGTGGAAGCTAAAGCTAAGATTGAAGAA
 TTACTTTCCAGCCTTTTGACCAGAGTATGCCAGGATGGAAGGAAGCCCCATACAGTAAGATTAGTCATCC
 GTCGGTACTCTGACAAACACTGTAATCGAGAGAGTCGTCAAGTGCCTATCCCATCCCACGTCATTAGAA
 GTTAGGGACAGGAAATCATGACTCCATGCTCCCTGATTGATATCCTTATGAACTTTTCCGAAATATG
 GTGAACGTGAAGATGCCCTTTACCTGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCA
 GTGCTAAGAAAGGGCCTATGGACTGCTACCTAACGTCCCTCTCAACCCCTGCCTACCCGACAAGCGCGC
 CTTTAAAGTGAAGGACACCCACACGGAAGACTCTACAAGGAGAAAGAAGCAAACTGGGATTGTCTACCA
 AGTAGAAGAATCGAAAGCACAGGAACGGGGAGTCTCCGTTGGATGCCACCTGTTTTCTAAAGAAAAAG
 ACACAAGTGACTTGCCCTCCAGGCACTGCCAGAGGGTGTGATCAAGAAGTCTTTAAGCAACTCCAGC
 AGATATTCAAGAAGAAATCCTTTCTGAAAAATCTAGAGAAAATCTAAAAGGGAAAGGAAGTTAAGTTGT
 CCGCTGCATGCCTCTAGAGGAGTATTGTCTTTCTTTCTACAAAGCAAATGCAAGCCAGTCGTTAAGCC
 CCAGAGATACTGCGCTCCCTAGCAAGCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTCAGGACT
 GAGCCCCGGGAGCACCTCCCATCCATCGTGGGAAAGGACTGTTCTATTACATAGACAGCCAGTTAAAG
 GATGAGCAAACGAGTCAAGGCCCTACTGAGTCTCAAGGATGCCAGTTTTCCAGCACGAACCTGCTGTTT
 CTGGTTTTCCATTCTTTCTTAATCTGCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCA
 CAAGCAGACAGCCACCGCTCTCACCAGGGACTAGAAAGTCAACCAGGGACTAGAAAGCAGAGAGCTGGAT
 TCTGCGGAAGAAAAGCTTCTTTCCACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGG
 TCCAAAAGGAAGTATGGCGGAATGGGAGAGAGCTGGAGCTGCGCGCCCTCGGCGCACAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209951 protein sequence
Red=Cloning site Green=Tags(s)

MISNPCLKDRPLGVQKYLVVTCNYEARLGVKLMNVRDAKEKCPQLVLVNGEDLSRYREMSYKVTELL
 EEFSPAVERLGFDENFVDLTEMVEKRLQQLPSEEVPSVTVFGHVYNNQSVNLHNIMHRRLVVGSI
 REAMYNQLGLTGACGAVPNKLLAKLVSGVFKPNQQTVLLPESCQHLIHSLNHIKEIPGIGYKTA
 KRLEVLGINSVHDLQTFPIKTLEKELGIAIAQRIQQLSFGEDKSPVTPSGPPQSFSEEDTFKKS
 SEVEAKAKIEELLSSLLTRVCQDGRKPHTVRLVIRRYSDKHCNRESRQCPIPSHVIQKLG
 TGNHDSMPPLIDILMKLFRMNVNKMFPFHLTMSVCFCNLKA
 LSSAKKGPMDCYLTSLS
 TPAYTDKRAFVKDTHTEDSHKEKEANWDCLP
 SRRRIESTGTGESPLDATCFPEKEDTSDLPLQALPEGVDQEVFKQLPADIQEEILSGKSREN
 LKKGKLSLPLHASRGLV
 SFFSTKQMQASRLSPRDTALPSKRVSAASPCPGTSGLSPGSTSHPSCGKDCSYIDSQ
 LKDEQTSQGPTE
 SQGCQFSSTNPVSGFHSFPNLQTEQLFSTHRTVDSHKQTATASHQGLESHQGLSRELD
 SAEKLPFPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001136090

ORF Size: 2025 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_001136090.2](#), [NP_001129562.1](#)

RefSeq Size: 2937 bp

RefSeq ORF: 2025 bp

Locus ID: 26447

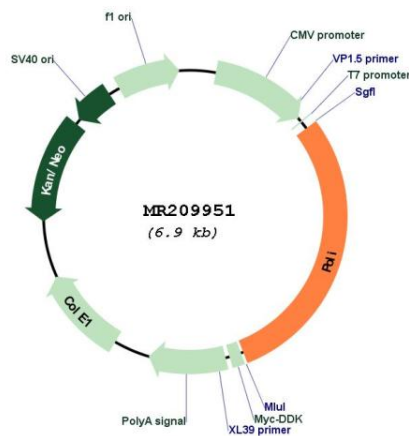
UniProt ID: [Q6R3M4](#)

Cytogenetics: 18 E2

MW: 75.1 kDa

Gene Summary: Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209951