

Product datasheet for **MG209951**

Poli (BC082278) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poli (BC082278) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Poli
Synonyms:	Rad30b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209951 representing BC082278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCTCCAACCCAGAATTAAGGACAGACCTTTAGGTGTGCAACAGAAATACTTGGTGGTTACCTGCA
 ACTATGAAGCCAGGAAACTGGGTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCTCA
 GCTGGTCTCGTGAACGAGAAGACCTGAGCCGTACAGAGAGATGTCCTATAAGGTCACAGAATTGTTG
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 CCAGTCTGTGAACCTACACAACATCATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATG
 CGGAAGCCATGTATAATCAGCTCGGGCTCACAGGCTGCGCCGGAGTGGCTCCTAACTCTTGGCAA
 AGTTAGTGTCTGGGGTTTTAAACCAAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCAT
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 GTCCTTTAGTGAAGAAGTACGTTTAAAAAGTGTCTCAGAAGTGGAAGCTAAAGCTAAGATTGAAGAA
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 CCGCTGCATGCCTCTAGAGGAGTATTGTCTTTCTTTCTACAAAGCAAATGCAAGCCAGTCGTTAAGCC
 CCAGAGATACTGCGCTCCCTAGCAAGCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTCAGGACT
 GAGCCCCGGGAGCACCTCCCATCCATCGTGGGAAAGGACTGTTCTATTACATAGACAGCCAGTTAAAG
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 CAAGCAGACAGCCACCGCTCTACCAGGGACTAGAAAGTCAACCAGGGACTAGAAAGCAGAGAGCTGGAT
 TCTGCGGAAGAAAAGTCTCTTTCCACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGG
 TCCAAAAGGAAGTATGGCGGAAATGGGAGAGAGCTGGAGCTGCGCGCCCTCGGCGCACAGA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209951 representing BC082278
 Red=Cloning site Green=Tags(s)

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MISNPCLKDRPLGVQKYLVVTCNYEARLKGVRKLMNVRDAKEKCPQLVLVNGEDLSRYREMSYKVTELL
EEFSPAVERLGFDEFVLDLTEMVEKRLQQLPSEEVPSVTVFGHVYNNQSVNLHNIHRRLLVVGSGIAAEM
REAMYNQLGLTGCAGVAPNKLAKLVSGVFKPNQQTVLLPESCQHLIHSLNHIKEIPGIGYKTAKRLEVL
GINSVHDLQTFPIKTLEKELGIAIAQRIQQLSFGEDKSPVTPSGPPQSFSEEDTFKKCSSEVEAKAKIEE
LLSSLLTRVCQDGRKPHTVRLVIRRYSDKHCHNRESRQCPIPSHVIQKLGTHGNDMPPLIDILMKLFRNM
VNVKMPFHLTLMVCFCLNKKALSSAKKGPMDCYLTSLSSTPAYTDKRAFVKDTHTEDSHKEKEANWDCLP
SRRIESTGTGESPLDATCFPEKEDTSDLPLQALPEGVDQEVFKQLPADIQEEILSGKSRENKLGKGLSLSC
PLHASRGLVFFSTKQMQASRLSPRDTALPSKRVSAAASPCPGTSGLSPGSTSHPSCGKDCSYIDSQGLK
DEQTSQGPTESSQGCQFSSTNPAVSGFHSFNLQTEQLFSTHRTVDSHKQTATASHQGLSHQGLSRELD
SAEKLFPFPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC082278

ORF Size: 2022 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: [BC082278](#), [AAH82278](#)

RefSeq Size: 2754 bp

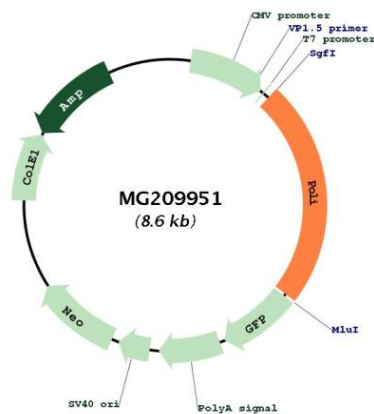
RefSeq ORF: 2024 bp

Locus ID: 26447

Cytogenetics: 18 E2

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 MG209951