

Product datasheet for **MC221231**

Poli (NM_011972) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poli (NM_011972) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Poli
Synonyms:	Rad30b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC221231 representing NM_011972
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGGTGGAGTCGGAGGAGGAAGGCGGCCCGCGGAGGAAGAAGACGCTCCTCGTCCATGGAGCCCT
 TGCACGCGGGGGCGCGGCAGCTCGCGGCAGTTTGCAGTCAAGGGCCACCTACACAAATCTCTTCGTC
 GAGAGTCATAGTCCAGTAGATCTGGATTGCTTTATGCCAGGTGCAAAATGATCTCCAACCCAGAATTA
 AAGGACAGACCTTTAGGTGTGCAACAGAAATCTTGGTGGTTACCTGCAACTATGAAGCCAGGAACTGG
 GTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCTCAGCTGGTCTCGTGAACGGAGA
 AGACCTGAGCCGTACAGAGAGATGTCTATAAGGTCACAGAATTGTTGGAGGAATTTAGTCCAGCTGTT
 GAGAGACTTGGATTTGATGAAAATTTTGTGGATCTAACAGAAATGGTGGAAAAAGACTCCAGCAGCTTC
 CAAGTGAGGAGGTTCCGTCACTGACTGTGTCGGCCATGTTACAATAACCACTGTGAACCTACACAA
 CATCATGCATCGAGACTTGTGGTGGATCGCAGATTGCAGCAGAGATGCGGGAAGCCATGTATAATCAG
 CTGCGGCTCACAGGCTGCGCCGAGTGGCTCCTAATAAACTCTTGCCAAAGTTAGTGTCTGGGGTTTTTA
 AACCAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCATTACAGTTTGAACCACATAAA
 GGAAATTCCTGGTATCGCTATAAACTGCCAAGCGTCTCGAAGTTCTGGGAATCAATAGTGTTCATGAT
 CTCCAAACCTTTCCAATCAAAACATTAGAAAAAGAAATAGGAATTGCAATTGCTCAGCGTATCCAGCAGC
 TCAGTTTTGGAGAGGACAAGTCTCCCGTCACACCGTCAGGGCCACCACAGTCTTTAGTGAAGAAGATAC
 GTTTAAAAAGTGTCTCAGAAGTGAAGCTAAGCTAAGATTGAAGAATTACTTTCCAGCCTTTTGACC
 AGAGTATGCCAGGATGGAAGGAAGCCCCATACAGTAAGATTAGTCATCCGTCGGTACTCTGACAAACACT
 GTAATCGAGAGATCGTCAGTGCCTATCCCATCCACGTCATTACAGAAGTTAGGACAGGAAATCATGA
 CTCCATGCCTCCCTGATTGATATCCTTATGAACTTTTCCGAAATATGGTGAACGTGAAGATGCCCTTT
 CACCTGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCAGTGCTAAGAAAGGCCTATGG
 ACTGCTACCTAACGTCCCTCTCAACCCCTGCCTACACCGACAAGCGCGCTTTAAAGTGAAGGACACCCA
 CACGGAAGACTCTACAAGGAGAAAGAAGCAAACTGGGATTGTCTACCAAGTAGAAGATCGAAAGCACA
 GGAACGGGGGAGTCTCGTTGGATGCCACCTGTTTTCTAAAGAAAAAGACACAAGTGAAGTTCGCCCTCC
 AGGCACTGCCAGAGGGTGTGATCAAGAAGTCTTAAGCAACTCCAGCAGATATTCAAGAAGAAATCCT
 TTCTGAAAAATCTAGAGAAAATCTAAAAGGAAAGGAAGTTTAAGTTGTCCGCTGCATGCCTCTAGAGGA
 GTATTGTCTTTCTTTCTACAAAGCAAAATGCAAGCCAGTCGCTTAAGCCCAGAGATACTGCGCTCCCTA
 GCAAGCGGGTATCAGCTGCATCTCCTGTGAGCCGGGAACGTGAGACTGAGCCCCGGGAGCACCTCCCA
 TCCATCGTGCGGAAAGGACTGTTCTATTACATAGACAGCCAGTTAAAGGATGAGCAACAGGTCAAGGC
 CCTACTGAGTCTCAAGGATGCCAGTTTTCCAGCACGAACCCTGCTGTTTCTGGTTTCCATTCTTTCTCTA
 ATCTGCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCACAAGCAGACAGCCACCGCCTC
 TCACCAGGACTAGAAAGTCAACAGGGACTAGAAAGCAGAGAGCTGGATTCTGCGGAAGAAAAGCTTCCT
 TTCCCACCAGACATTGATCCGCAAGTTTCTATGAGCTTCCAGAAGAGGTCCAAAAGGAAGTATGGCGG
 AATGGGAGAGAGCTGGAGCTGCGCGCCCTCGGCGCACAG**ATAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_011972

Insert Size:

2214 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_011972.2</u> , <u>NP_036102.2</u>
RefSeq Size:	2482 bp
RefSeq ORF:	2214 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] Transcript Variant: This variant (2) encodes the longest isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.