

Product datasheet for **MR230470**

Poli (NM_001289515) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poli (NM_001289515) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poli
Synonyms:	Rad30b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230470 representing NM_001289515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATCGGGGAAGCCATGTATAATCAGCTCG
 GGCTCACAGGCTGCGCCGAGTGGCTCCTAATAAACTCTTGGCAAAGTTAGTGTCTGGGTTTTTAAACC
 AAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCATTACAGTTTTGAACCACATAAAGGAA
 ATTCCTGGTATCGGCTATAAACTGCCAAGCGTCTCGAAGTTCTGGGAATCAATAGTGTTCATGATCTCC
 AAACCTTTCCAATCAAAACATTAGAAAAAGAAATTAGGAATTGCAATTGCTCAGCGTATCCAGCAGCTCAG
 TTTTGGAGAGGACAAGTCTCCCGTCACACCGTCAGGGCCACCACAGTCTTTAGTGAAGAAGATACGTTT
 AAAAGTGTTCCTCAGAAGTGAAGCTAAAGCTAAGATTGAAGAATTACTTTCCAGCCTTTTGACCAGAG
 TATGCCAGGATGGAAGGAAGCCCATACAGTAAGATTAGTCATCCGTCGGTACTCTGACAAACACTGTAA
 TCGAGAGAGTCGTCAGTCCCTATCCCATCCCAGTCATTGAGAAGTTAGGGACAGGAAATCATGACTCC
 ATGCCTCCCTGATTGATATCCTTATGAACTTTTCCGAAATATGGTGAACGTGAAGATGCCCTTTACC
 TGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCAGTGCTAAGAAAGGGCCTATGGACTG
 CTACCTAACGTCCCTCTCAACCCCTGCCTACACCGACAAGCGCGCCTTTAAAGTGAAGGACACCCACAG
 GAAGACTCTCACAAAGGAGAAAGAAGCAAAGTGGGATTGTCTACCAAGTAGAAGAAATCGAAAGCACAGGAA
 CGGGGGAGTCTCCGTTGGATGCCACCTGTTTTCTAAAGAAAAAGACACAAGTGACTTGGCCCTCCAGGC
 ACTGCCAGAGGGTGTGATCAAGAAGTCTTAAAGCACTCCAGCAGATATTCAAGAAGAAATCCTTTCT
 GGAAAACTAGAGAAAAATCTAAAAGGAAAGGAAGTTAAAGTTGTCGCGTCATGCCTCTAGAGGAGTAT
 TGCTTTTCTTTCTACAAAGCAAATGCAAGCCAGTCGTTAAGCCCCAGAGATACTGCGCTCCCTAGCAA
 GCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTGAGACTGAGCCCGGGAGCACCTCCCATCCA
 TCGTGCGGAAAGGACTGTTCTATTACATAGACAGCCAGTTAAAGGATGAGCAAACGAGTCAAGGCCCTA
 CTGAGTCTCAAGGATGCCAGTTTTCCAGCACGAACCCCTGCTGTTTCTGGTTTCCATTCTTTCTAATCT
 GCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCACAAGCAGACAGCCACCGCCTCTCAC
 CAGGGACTAGAAAGTACCAGGGACTAGAAAGCAGAGAGCTGGATTCTGCGGAAGAAAAGCTTCTTTCC
 CACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGGTCCAAAAGGAACTGATGGCGGAATG
 GGAGAGAGCTGGAGCTGCGCGCCCTCGCGCACAGA

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR230470 representing NM_001289515
 Red=Cloning site Green=Tags(s)

MHRRLVGSQIAEMREAMYNQLGLTGCAGVAPNKLAKLVSGVFKPNQQTVLLPESCQHLIHSLNHIKE
 IPGIGYKTAKRLEVLGINSVHDLQTFPIKLEKELGIAIAQRIQQLSFGEDKSPVTPSGPPQSFSEEDTF
 KKCSEVEAKAKIEELLSSLLTRVCQDGRKPHTVRLVIRRYSDKHCNRESRQCPISHVVIQKLGTHNDS
 MPPLIDILMKLFRNMVNVKMPFHLTLMVCFCNLKLSSAKKGPMDCYLTSSTPAYTDKRAFVKVDHTHT
 EDSHKEKEANWDCLPSRRIESTGTGESPLDATCFPEKEDTSDLPLQALPEGVDQEVFKQLPADIQEEILS
 GKSRENKKGKSLSCPLHASRGVLSFFSTKQMQASRLSPRDTALPSKRVSAAASPCPGTSGLSPGSTSHP
 SCGKDCSYIDSQKDEQTSQGPTESQGCQFSSTNPAVSGFHSFNLQTEQLFSTHRTVDSHKQTATASH
 QGLESHQGLSRELDSEKLPFPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001289515
ORF Size:	1647 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:	<ol style="list-style-type: none">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_001289515.1 , NP_001276444.1
RefSeq Size:	3582 bp
RefSeq ORF:	1650 bp
Locus ID:	26447
UniProt ID:	Q6R3M4
Cytogenetics:	18 E2
MW:	61.1 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]