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Product datasheet for MR216260

Poli (NM_011972) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poli (NM_011972) 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)

View online »

ORF Nucleotide Sequence:

>MR216260 representing NM_011972
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGTGGAGTCGGAGGAGGAAGGCGGCCCCGCGGAGGAAGAAGACGCTCCTCGTGCCATGGAGCCCT
TGCACGCGGGGGCGGCGGGCAGCTCGCGGGCAGTTTGCAGTCAAGGGCCACCTACACAAATCTCTTCGTC
GAGAGTCATAGTCCACGTAGATCTGGATTGCTTTTATGCCCAGGTCGAAATGATCTCCAACCCAGAATTA
AAGGACAGACCTTTAGGTGTGCAACAGAAATACTTGGTGGTTACCTGCAACTATGAAGCCAGGAAACTGG
GTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCCTCAGCTGGTCCTCGTGAACGGAGA
AGACCTGAGCCGCTACAGAGAGATGTCCTATAAGGTCACAGAATTGTTGGAGGAATTTAGTCCAGCTGTT
GAGAGACTTGGATTTGATGAAAATTTTGTGGATCTAACAGAAATGGTGGAAAAAAGACTCCAGCAGCTTC
CAAGTGAGGAGGTTCCGTCAGTGACTGTGTTCGGCCATGTTTACAATAACCAGTCTGTGAACCTACACAA
CATCATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATGCGGGAAGCCATGTATAATCAG
CTCGGGCTCACAGGCTGCGCCGGAGTGGCTCCTAATAAACTCTTGGCAAAGTTAGTGTCTGGGGTTTTTA
AACCAAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCATTCACAGTTTGAACCACATAAA
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CTCCAAACCTTTCCAATCAAAACATTAGAAAAAGAATTAGGAATTGCAATTGCTCAGCGTATCCAGCAGC
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GTTTAAAAAGTGTTCCTCAGAAGTGGAAGCTAAAGCTAAGATTGAAGAATTACTTTCCAGCCTTTTGACC
AGAGTATGCCAGGATGGAAGGAAGCCCCATACAGTAAGATTAGTCATCCGTCGGTACTCTGACAAACACT
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CTCCATGCCTCCCCTGATTGATATCCTTATGAAACTTTTCCGAAATATGGTGAACGTGAAGATGCCCTTT
CACCTGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCAGTGCTAAGAAAGGGCCTATGG
ACTGCTACCTAACGTCCCTCTCAACCCCTGCCTACACCGACAAGCGCGCCTTTAAAGTGAAGGACACCCA
CACGGAAGACTCTCACAAGGAGAAAGAAGCAAACTGGGATTGTCTACCAAGTAGAAGAATCGAAAGCACA
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AGGCACTGCCAGAGGGTGTTGATCAAGAAGTCTTTAAGCAACTTCCAGCAGATATTCAAGAAGAAATCCT
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GCAAGCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTCAGGACTGAGCCCCGGGAGCACCTCCCA
TCCATCGTGCGGAAAGGACTGTTCCTATTACATAGACAGCCAGTTAAAGGATGAGCAAACGAGTCAAGGC
CCTACTGAGTCTCAAGGATGCCAGTTTTCCAGCACGAACCCTGCTGTTTCTGGTTTCCATTCCTTTCCTA
ATCTGCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCACAAGCAGACAGCCACCGCCTC
TCACCAGGGACTAGAAAGTCACCAGGGACTAGAAAGCAGAGAGCTGGATTCTGCGGAAGAAAAGCTTCCT
TTCCCACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGGTCCAAAAGGAACTGATGGCGG
AATGGGAGAGAGCTGGAGCTGCGCGCCCCTCGGCGCACAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216260 representing NM_011972
Red=Cloning site Green=Tags(s)

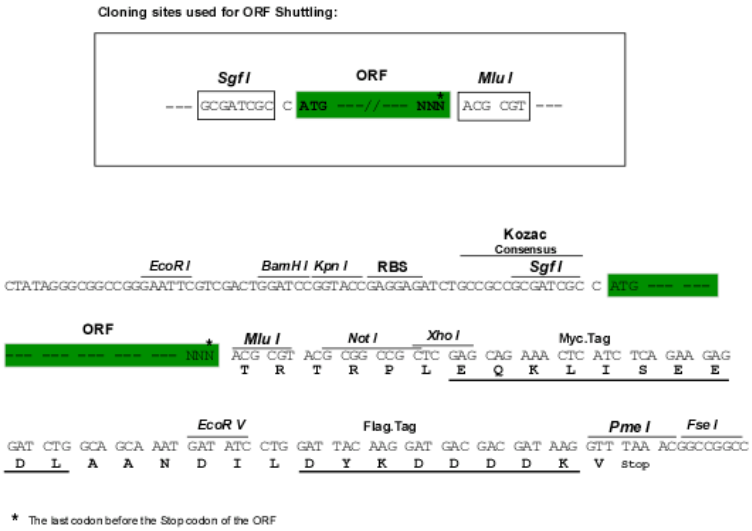
MGVESEEEGGPAEEEDAPRAMEPLHAGAAGSSRAVCSQGPPTQISSSRVIVHVDLDCFYAQVEMISNPEL
KDRPLGVQQKYLVVTCNYEARKLGVRKLMNVRDAKEKCPQLVLVNGEDLSRYREMSYKVTELLEEFSPAV
ERLGFDENFVDLTEMVEKRLQQLPSEEVPSVTVFGHVYNNQSVNLHNIMHRRLVVGSQIAAEMREAMYNQ
LGLTGCAGVAPNKLLAKLVSGVFKPNQQTVLLPESCQHLIHSLNHIKEIPGIGYKTAKRLEVLGINSVHD
LQTFPIKTLEKELGIAIAQRIQQLSFGEDKSPVTPSGPPQSFSEEDTFKKCSSEVEAKAKIEELLSSLLT
RVCQDGRKPHTVRLVIRRYSDKHCNRESRQCPIPSHVIQKLGTGNHDSMPPLIDILMKLFRNMVNVKMPF
HLTLMSVCFCNLKALSSAKKGPMDCYLTSLSTPAYTDKRAFKVKDTHTEDSHKEKEANWDCLPSRRIEST
GTGESPLDATCFPKEKDTSDLPLQALPEGVDQEVFKQLPADIQEEILSGKSRENLKGKGSLSCPLHASRG
VLSFFSTKQMQASRLSPRDTALPSKRVSAASPCEPGTSGLSPGSTSHPSCGKDCSYYIDSQLKDEQTSQG
PTESQGCQFSSTNPAVSGFHSFPNLQTEQLFSTHRTVDSHKQTATASHQGLESHQGLESRELDSAEEKLP
FPPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3716_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011972

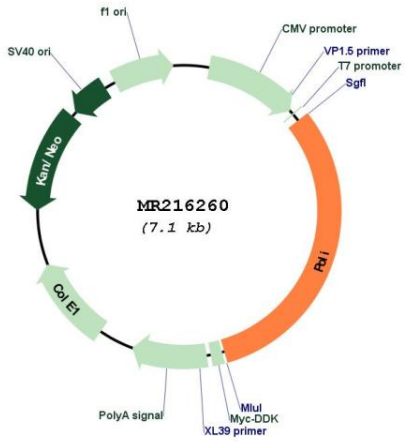
ORF Size: 2214 bp

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_011972.2, NP_036102.2
RefSeq Size:	2482 bp
RefSeq ORF:	2214 bp
Locus ID:	26447
Cytogenetics:	18 E2
MW:	81.6 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 immunogobulin 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 MR216260