

Product datasheet for MR224695

Polb (NM_011130) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polb (NM_011130) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Polb
Synonyms:	A430088C08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224695 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAGCAAACGCAAGGCGCCGAGGAGACCCTCAACGGCGGCATCACGGACATGCTCGTGGAACTCGCAA
ACTTTGAGAAGAAGCTGAGCCAGGCGATCCACAAGTACAATGCGTACAGAAAAGCGGCATCTGTGATAGC
CAAGTACCCACACAAAATCAAGAGCGGAGCGGAAGCTAAGAACTGCCAGGAGTAGGAACAAAATTGCT
GAAAAGATTGATGAATTTTAGCAACTGGAAAATTGCGTAACTGGAAAAGATTCGTCAGATGATACAA
GTTTCATCCATCAATTTCTGACTCGAGTACTGGCATTGGACCATCTGCTGCAAGGAAGTTGTAGATGA
AGGAATTAAGACATTAGAAGATCTCAGGAAAAATGAAGATAAACTGAACCATCATCAACGAATTGGGCTG
AAATATTTTCGAGGACTTTGAAAAGAGAATTCCTCGTGAGGAAATGCTGCAGATGCAGGATATTGACTTA
ATGAAATTAAGAAAGTGGACTCTGAGTACATTGCTACAGTCTGTGGCAGTTTCAGAAGAGGCGCAGAGTC
GAGTGGAGACATGGATGTCCTGCTGACCCACCCAACTTCACGTGAGTCCAGCAAACAGCCAAAGTTG
TTACATCGTGTGTGGAACAGTTACAAAAGTCCATTTTACAGATACTCTGTCAAAGGGTGAACAA
AGTTTATGGGTGTTTCCAGCTTCCAGCGAGAAGGATGGAAAGGAATATCCACACAGGAGAATCGATAT
CAGGTTGATCCCCAAGATCAGTACTACTGTGGTGTCTCTACTTCACTGGGAGTGACATCTTTAATAAG
AACATGAGAGCGCACGCCCTGGAAAAGGGCTTCAATCAATGAGTACCCATCCGCCCTGGGGTCA
CTGGAGTCGCTGGGAGCCCTTCTGTGGACAGTGGCAGGACATTTTGTATTACATCCAGTGGCGCTA
CCGGGAGCCCAAGGATAGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224695 protein sequence
Red=Cloning site Green=Tags(s)

MSKRKAPQETLNGGITDMLVELANFEKNVSQAIHKYNAYRKAASVIKYPHKIKSGAEAKKLPGVGKTKIA
 EKIDEFLATGKLRKLEKIRQDDTSSSINFLTRVTGIGPSAARKFVDEGIKTLEDLRKNEDKLNHHQRIGL
 KYFEDFEKRIPREEMLMQDIVLNEIKKVDSEYIATVCGSFRRGAESSGDMVLLTHPNFTSESSKQPKL
 LHRVVEQLQKVHFITDTLSKGETKFMGVCQLPSEKDGKEYPHRRIDIRLIPKDYQYCGVL YFTGSDIFNK
 NMRHAHALEKGFITNEYTIRPLGVTGVAGEPLPVDSEQDIFDYIQWRYREPKDRSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011130

ORF Size: 1008 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_011130.1](#), [NM_011130.2](#), [NP_035260.1](#)

RefSeq Size: 1227 bp

RefSeq ORF: 1008 bp

Locus ID: 18970

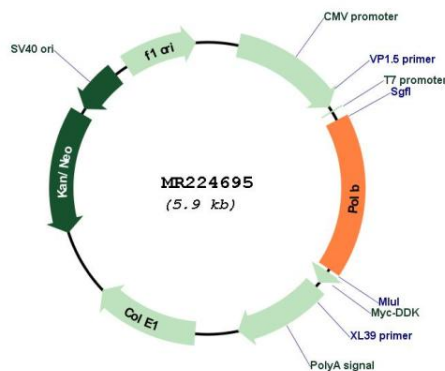
UniProt ID: [Q8K409](#)

Cytogenetics: 8 11.42 cM

MW: 38.3 kDa

Gene Summary: Repair polymerase that plays a key role in base-excision repair. Has 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity that removes the 5' sugar phosphate and also acts as a DNA polymerase that adds one nucleotide to the 3' end of the arising single-nucleotide gap. Conducts 'gap-filling' DNA synthesis in a stepwise distributive fashion rather than in a processive fashion as for other DNA polymerases (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224695