

Product datasheet for **RR215530**

Polb (NM_017141) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polb (NM_017141) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Polb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215530 representing NM_017141
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAAACGCAAGGCCCGCAGGAGACCCTCAACGGCGGCATCACGGACATGCTCGTGGAACTCGCAA
ACTTTGAGAAGAACGTGAGCCAGGCGATCCACAAGTACAATGCATACAGAAAAGCAGCATCTGTGATAGC
AAAGTACCCACACAAAATCAAGAGTGGAGCAGAAGCTAAGAAATTGCCAGGAGTAGGAACAAAAATTGCT
GAAAAGATTGATGAATTTTAGCAACTGGAAAATTGCGTAAACTGGAAAAGATTGCTCAGGATGATACAA
GTTTCATCCATCAACTTCTGACTCGAGTTACTGGCATCGGGCCATCTGCTGCAAGGAAGCTTGATAGATGA
AGGAATTAACATTAGAAGATCTCAGGAAAAATGAAGATAAATTGAACCACCATCAGCGAATTGGGCTG
AAATATTTGAGGACTTTGAAAAGAGAATTCCTCGTGAGGAGATGCTGCAATGCAGGACATTGTTCTTA
ATGAAGTTAAAAGCTGGATCCCGAGTACATCGCTACAGTCTGCGGCAGTTTCCGAAGAGGCGCAGAGTC
CAGTGGAGATATGGACGTTCTGCTGACCCACCAAACTTCACGTCAGAATCAAGCAAACAGCCAAAGTTG
TTACATCGTGTTGTGGAACAGTTACAAAAGTCCGTTTCATTACAGATACTCTGTCAAAGGGTGAGACAA
AGTTCATGGGTGTTGCCAGCTCCAGCGAGAATGATGAAAACGAATATCCACACAGGAGAATCGATAT
CAGGTTGATCCCAAAGATCAGTACTACTGTGGTGTCTCTACTTCACTGGAAGTGACATCTTTAATAAG
AATATGAGAGCGCATGCCTGAAAAGGGCTTCACAATCAATGAGTACCCATCCGCCCCCTGGGGGTCA
CTGGGGTGTGGGGAGCCCCCTCCGGTGGACAGCGAGGACATTTTCGATTACATCCAGTGGCGCTA
CCGGGAGCCCAAGGACAGGAGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215530 representing NM_017141
Red=Cloning site Green=Tags(s)

MSKRKAPQETLNGGITDMLVELANFEKNVSQAIHKYNAYRKAASVIKYPHKIKSGAEAKKLPVGVGKIA
 EKIDEFLATGKLRKLEKIRQDDTSSSINFLTRVTGIGPSAARKLVDEGIKLTLEDLRKNEKLNHHQRIGL
 KYFEDFEKRIPREEMLQMQDIVLNEVKKLDPEYIATVCGSFRRGAESSGDMVLLTHPNFTSESSKQPKL
 LHRVVEQLQKVRFITDTLSKGETKFMGVCQLPSENDENEYPHRRIDIRLIPKDQYYCGVLVFTGSDIFNK
 NMRHAHALEKGFITNEYTIRPLGVTGVAGEPLPVDSEQDIFDYIQWRYREPDKRSE

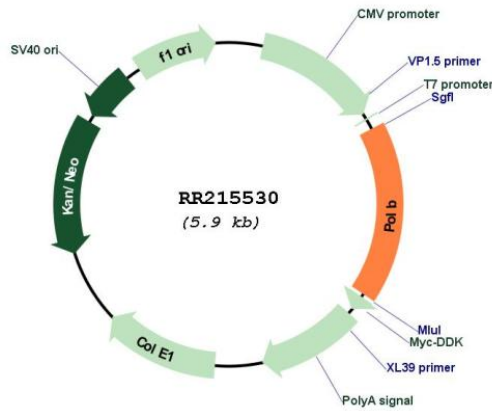
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017141

ORF Size:	1005 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_017141.2 , NP_058837.2
RefSeq Size:	1196 bp
RefSeq ORF:	1008 bp
Locus ID:	29240
UniProt ID:	P06766
Cytogenetics:	16q12.5
MW:	38.3 kDa
Gene Summary:	plays a role in DNA repair and bypass of pyrimidine dimers produced by UV-irradiation; also involved in base-excision repair [RGD, Feb 2006]