

Product datasheet for **RR211260**

Poll (NM_001014168) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poll (NM_001014168) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poll
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR211260 representing NM_001014168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCCAAGGCATCCTGAAGCATTTCCTCAAGCGAAAGAAAATTCATGCAGATCCATCATCAAACG
 CACTTGCAAAGATTCCCAAAAAGGGAGGCAGGAGATGCTAGAGGATGGCTGAGCTCCCTGAGGGCCACAT
 TATGCCCACTGGCATTGGGCGAGCCCGGCTGAACTCTTTGAGAAGCAGATTATCCAGCATGGTGGCCAG
 GTGTGCTCTGCCAGGCCCAAGGAGTCACTCACATTGTGGTGGATGAAGGCATGGACTATGAACGGGCTC
 TCCGGCTCCTCAGACTGCCCAAGCTGCCCTGGTCTCAGCTGGTGAAGTCAGCCTGGCTGAGCTTGTG
 TCTACAGGAGAAAAGCTGACAGACACGGACGGATTTCAGCCTTCCAGCCCTAAGAGTCTTGAATGAA
 CCACAGCCAGCAAGTCAGGCCAAGATGCTTCTGCTCCTGGCACTCAGGGGTTCTACCCAGGACAACGC
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 AACCCAGCTCAGCTCAGAGGATGAAGCCAGTGTGGGGAAGGGCCCAAGTTAGCTCAGCAGATTTGCAA
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 GCTTGAAGCACTATGATGACTTCTGGACCGCATGCCAGGGAGGAGGCTGCAGAAATTGAGCAGTGGT
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 GTGACCTGTGGGATGTAGATGTACTTACTACCCCGACGGCCGCTCCACCAGGGCATCTTACGCC
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 CAGCCAAGGTGTCAAGGTCCGGGCTGGACAAGTGTGCCACCCCAAGAGAGGACGTCTTCAAGCTC
 TAGGCTGCCCTACCGAGAACCGGCTGAACGGGACTGG

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Protein Sequence:

>RR211260 representing NM_001014168
 Red=Cloning site Green=Tags(s)

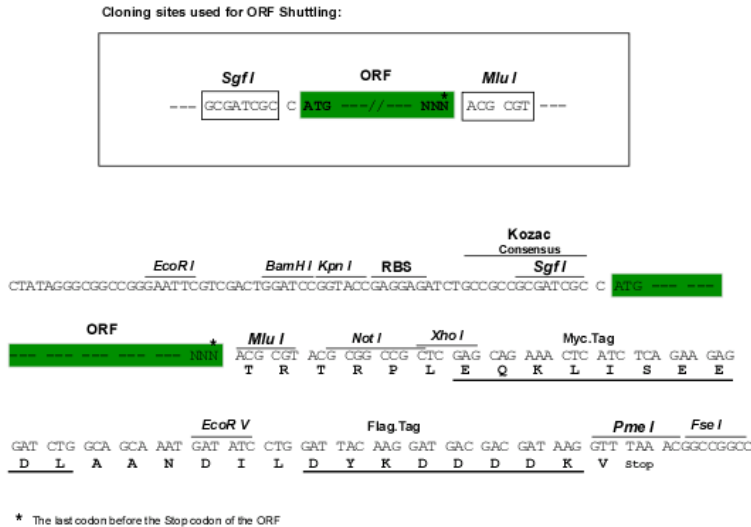
MDPQGIKAFPKRKKIHADPSSNALAKIPKREAGDARGWLSLRAHIMPTGIGRARAELFEKQIIQHGGQ
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 PQPSKSGQDASAPGTQGVLPRTTSLSPPECTRAVSPPKAEKPPKTQTQLSSEDEASDGEGPQVSSADLQ
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 INALKSFHKPVSSYQEACSIPIGVRRMAEKVMEILESGHLRKLHDHSDSVPVLELFSNIWAGTKTAQMW
 YHQGFRSLEDIRGLASLTAQQAIGLKHYYDFLDRMPREEAAEIEQMVRVSAQAFNPGLLCVACGSFRRGK
 VTCGDVDVLIITHPDGRSHQGIIFPLLDLRLRQQGFLTDDLVSQEENGQQQKYLGVCRPLPGAGQRHRRLDII
 VVPYSEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSAAVVRNSQGVKVGAGQVLPPTPEKDVFKL
 LGLPYREPAERDW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001014168

ORF Size: 1719 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_001014168.1](#), [NP_001014190.1](#)

RefSeq Size: 2320 bp

RefSeq ORF: 1722 bp

Locus ID: 361767

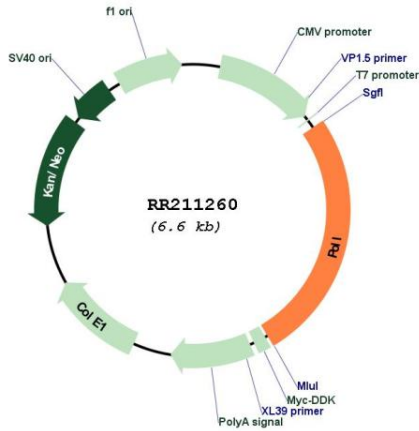
UniProt ID: [Q5RKI3](#)

Cytogenetics: 1q54

MW: 62.4 kDa

Gene Summary: DNA polymerase that functions in several pathways of DNA repair. Involved in base excision repair (BER) responsible for repair of lesions that give rise to abasic (AP) sites in DNA. Also contributes to DNA double-strand break repair by non-homologous end joining and homologous recombination. Has both template-dependent and template-independent (terminal transferase) DNA polymerase activities. Has also a 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR211260