

## Product datasheet for **MR209017**

### Poll (NM\_020032) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Poll (NM_020032) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poll
Synonyms:	1110003P06Rik; AV007317
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209017 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCCTCAGGCATCGTGAAGCCTTTCCAAAGCGGAAGAAAAGTCATGCAGATCTATCTTCAAAG  
 CACTTGCAAAGATTCCCAAAAGGGAGGTGGGAGAAGCTAGAGGATGGCTGAGCTCCCTGAGAGCCACAT  
 TATGCCCGCTGGCATTGGACGTGCCCGGCTGAACTCTTTGAGAAGCAGATTATCCACCATGGCGGCCAG  
 GTGTGCTCTGCCAGGCCAGGAGTCACTCACATTGTGGTGGATGAAGACATGGACTATGAGCGGGCTC  
 TCCGGCTCCTCAGGTTGCCCCAGCTACCCCTGGTGCCAGCTGGTGAAGTCCACCTGGCTGAGCTTGTG  
 CCTGCAGGAGGAAGGCTGACAGACACGGAAGGATTACGCCTTCCATGCCCAAGAGGTCCTTGGATGAA  
 CCACAGCCAGCAAGTCAGGCCAAGATGCTTCTGCTCCTGGCACCCAGCGGGATTACCCAGGACCACC  
 TTTCTCTTCCCCTCCTCACACCAGAGCTGTATCTCTCCCCAACGGCAGAAAAGCCATCAAGAACCCA  
 AGCCCAGCTCAGCTCAGAGGATGAAACCAGCGATGGAGAAGGGCCCGGTTAGCTCAGCAGATCTGCAA  
 GCCTTGATCACTGGGCACTACCCCACTCCCTGAGGAAGATGGTGGGCTGACCCAGCACCAGAAGCTC  
 TGGATAAATGGTCTGTGCACAGCCCTCGAGCCAGAAGGCAACTAACTACAATCTGCACATCACAGAGAA  
 GCTGGAAGTGTGGCTAAAGCCTACAGTGTCCAGGGAGACAAGTGGAGGGCCCTGGGCTATGCAAAGGCC  
 ATCAATGCTCTCAAGAGCTTCCACAAGCCTGTCAGCTCCTACCAGGAGGCTGTAGCATCCCGGGAATTG  
 GCAAGCGGATGGCGGAGAAGGTCATGGAGATCCTGGAGAGTGGGCATCTGCGGAAGCTAGACCACATCAG  
 TGACAGTGTGCCTGTCTTGGAGCTTCTCCAACATCTGGGGAGCTGGGACGAAGACTGCCAGATGTGG  
 TACCACAGGGCTTCCGAAACCTAGAAGATCTCAAAGCCTGGGCTCCCTGACCGCTCAGCAGGCCATTG  
 GCTTGAAGCACTACGATGACTTCTGACCCGATGCCAGGAGGAGGCTGCGGAAATGAGCAGAGCGGT  
 CCGGATATCAGCCAGGCCCTCAACCCTGGGCTGCTGTGTGGCTTGTGGCTTACCAGCGGGGAAG  
 ATGACGTGCGGGGATGTGGATGTACTACTACTACCCCGATGGCCGATCCACCGGGGATCTTACAGT  
 GCCTCCTTGATAGCCTTCGGCAGCAAGGTTTCTCACAGATGACTTGGTGGAGCCAGGAGGAGAACGGCCA  
 ACAGCAGAAATACCTGGGTGTGTGCCGGCTCCAGGGCCCGGAAAGCCACCGGCGACTGGACATCATC  
 GTGGTACCCTACTGTGAGTTTGCCTGTGCCCTGCTCTACTTACCAGGCTCTGCCACTTCAACCGGTCCA  
 TGAGAGCTCTGGCAAGACCAAGGGCATGAGCCTGTCCGAGCATGCGCTCAGTGCAGCTGTAGTCCGGAA  
 CAGCCAAGGTGTCAAGGTGGGGCTGGACAAGTGTGCCACCCACCGAGAAGGACGTCTTCAAGCAC  
 TTAGCCTGCCCTACCGGAGCCAGCTGAACGGGACTGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209017 protein sequence  
 Red=Cloning site Green=Tags(s)

MDPQGIKAFPKRKKSHADLSSKALAKIPKREVGARGWLSLRAHIMPAGIGRARAELFEKQIIHHGGQ  
 VCSAQAPGVTHIVVDEDMDYERALRLLRPLPQPPGAQLVKSTWLSLCLQEGRLTDEGFLPMPKRSLDE  
 PQPSKSGQDASAPGTQRDLPRRTLSPHTRAVSPPPTAEKPSRTQAQLSSEDETSDEGFPQVSSADLQ  
 ALITGHYPTPEEDGGPDAPEALDKWVCAQPSSQKATNYNLHITKLEVLAKAYSQGDKWRALGYAKA  
 INALKSFHKPVSSYQEACSIPIGIGKMAEKVMEILESGHLRKLHDHISDSVPVLELFSNIWAGTKTAQMW  
 YHQGFRNLEDLQSLGSLTAQQAIGLKHYYDFLDRMPREEAAEIEQTVRISQAQAFNPGLLCVACGSYRRGK  
 MTCGDVDVLIITHPDGRSHRGIFSCLLDSLQQGFLLTDDLVSQEENGQQQKYLGVCRPLPGPKRHRRLDII  
 VVPYCEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSAAVVRNSQGVKVGPGQVLPTEKDFVKH  
 LGLPYREPAERDW

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_020032

ORF Size: 1722 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\\_020032.3](#)

RefSeq Size: 2336 bp

RefSeq ORF: 1722 bp

Locus ID: 56626

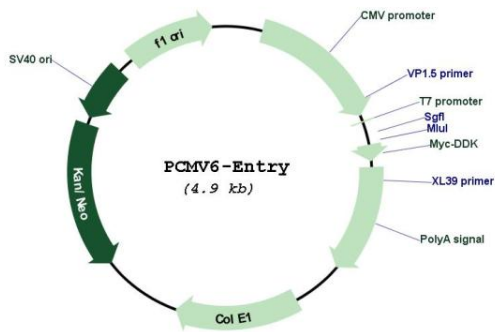
UniProt ID: [Q9QXE2](#)

Cytogenetics: 19 C3

**MW:** 62.9 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 MR209017