

Product datasheet for **MG209017**

Poll (NM_020032) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poll (NM_020032) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Poll
Synonyms:	1110003P06Rik; AV007317
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209017 representing NM_020032
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCTCAGGCATCGTGAAGCCTTTCCAAAGCGGAAGAAAAGTCATGCAGATCTATCTTCAAAG
 CACTTGCAAAGATTCCCAAAAGGGAGGTGGGAGAAGCTAGAGGATGGCTGAGCTCCCTGAGAGCCACAT
 TATGCCCGCTGGCATTGGACGTGCCCGGCTGAACTCTTTGAGAAGCAGATTATCCACCATGGCGGCCAG
 GTGTGCTCTGCCAGGCCCCAGGAGTCACTCACATTGTGGTGGATGAAGACATGGACTATGAGCGGGCTC
 TCCGGCTCCTCAGGTTGCCCCAGCTACCCCTGGTGCCAGCTGGTGAAGTCCACCTGGCTGAGCTTGTG
 CCTGCAGGAGGAAGGCTGACAGACACGGAAGGATTACGCCTTCCATGCCCAAGAGGTCCTTGGATGAA
 CCACAGCCAGCAAGTCAGGCCAAGATGCTTCTGCTCCTGGCACCCAGCGGGATTACCCAGGACCACC
 TTTCTCTTCCCCTCCTCACACCAGAGCTGTATCTCTCCCCAACGGCAGAAAAGCCATCAAGAACCCA
 AGCCCAGCTCAGCTCAGAGGATGAAACCAGCGATGGAGAAGGGCCCGGTTAGCTCAGCAGATCTGCAA
 GCCTTGATCACTGGGCACTACCCCACTCCCTGAGGAAGATGGTGGGCTGACCCAGCACCAGAAGCTC
 TGGATAAATGGTCTGTGCACAGCCCTCGAGCCAGAAGGCAACTAACTACAATCTGCACATCACAGAGAA
 GCTGGAAGTGTGGCTAAAGCCTACAGTGTCCAGGGAGACAAGTGGAGGGCCCTGGGCTATGCAAAGGCC
 ATCAATGCTCTCAAGAGCTTCCACAAGCCTGTCAGCTCCTACCAGGAGGCTGTAGCATCCCGGGAATTG
 GCAAGCGGATGGCGGAGAAGGTCATGGAGATCCTGGAGAGTGGGCATCTGCGGAAGCTAGACCACATCAG
 TGACAGTGTGCCTGTCTTGGAGCTTCTCCAACATCTGGGGAGCTGGGACGAAGACTGCCAGATGTGG
 TACCACAGGGCTTCCGAAACCTAGAAGATCTCAAAGCCTGGGCTCCCTGACCGCTCAGCAGGCCATTG
 GCTTGAAGCACTACGATGACTTCTGGACCGCATGCCAGGAGGAGGCTGCGGAAATGAGCAGACGCTG
 CCGGATATCAGCCCAGGCCCTCAACCCCTGGGCTGCTGTGTGGCTTGTGGCTCTTACCGACGGGGGAA
 ATGACGTGCGGGGATGTGGATGTACTACTACTACCCCGATGGCCGATCCACCGGGGATCTTCAAGT
 GCCTCCTTGATAGCCTTCGGCAGCAAGGTTTCTCACAGATGACTTGGTGGAGCCAGGAGGAGAACGGCCA
 ACAGCAGAAATACCTGGGTGTGTGCCGGCTCCAGGGCCCGGAAAGCCACCGGCGACTGGACATCATC
 GTGGTACCCTACTGTGAGTTTGCCTGTGCCCTGCTCTACTTACCAGGCTCTGCCACTTCAACCGGTCCA
 TGAGAGCTCTGGCAAGACCAAGGGCATGAGCCTGTGGGAGCATGCGCTCAGTGCAGCTGTAGTCCGGAA
 CAGCCAAGGTGTCAAGGTGGGGCTGGACAAGTGTGCCACCCACCGGAGAAGGACGCTTCAAGCAC
 TTAGCCCTGCCCTACCGGAGCCAGCTGAACGGGACTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209017 representing NM_020032
 Red=Cloning site Green=Tags(s)

MDPQGIKAFPKRKKSHADLSSKALAKIPKREVGARGWLSLRAHIMPAGIGRARAELFEKQIIHHGGQ
 VCSAQAPGVTHIVVDEDMDYERALLRLPQLPPGAQLVKSTWLSLCLQEGRLTDETFSLPMPKRSLDE
 PQPSKSGQDASAPGTQRDLPRRTLSPHTRAVSPPPTAEKPSRTQAQLSSEDETSDGEGPQVSSADLQ
 ALITGHYPTPEEDGGPDPAPEALDKWVCAQPSSQKATNYNLHITEKLEVLAKAYSVQGDKWRALGYAKA
 INALKSFHKPVSSYQEACSIPIGIGKMAEKVMEILESGHLRKLHDHSDSVPVLELFSNIWGAGTKTAQMW
 YHQGFRNLEDLQSLGSLTAQQAIGLKHYYDFLDRMPREEAAEIEQTVRISAQAFNPGLLCVACGSYRRGK
 MTCGDVDVLIITHPDGRSHRGIFSCLLDLRLRQQGFLTDDLVSQEENGQQQKYLGVCRPLPGPKRHRRLDII
 VVPYCEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSAAVVRNSQGVKVGPGQVLPTEKDVFKH
 LGLPYREPAERDW

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_020032.3
RefSeq Size:	2336 bp
RefSeq ORF:	1722 bp
Locus ID:	56626
UniProt ID:	Q9QXE2
Cytogenetics:	19 C3
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]