

Product datasheet for **MG209308**

Pola2 (NM_008893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pola2 (NM_008893) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pola2
Synonyms:	A1573378
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209308 representing NM_008893
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGTGTCCACCCAGCAGCTGGCGGAGGAACACTACAGATCTTCGGCCTGGACTACGAGGACTCCCTGT
 TGGAGAAACTGGCAGAGCTGTGTGTTCTATACCGACAGACTGAGGACGGGATGGTCAGTGAGCTCATCGC
 CTTCTGCACCAAGTGGCGGGAAGACATGCCTTACTGTAGACATCCTGAACTCTTTGAATACGAGGTTCTG
 AACAAAAAAGCTCTCAAAGCCTGGCACAGTGCCTCAAAGACAGTGGGCATGCAGGAACAGAGACATTG
 TTTCTATAACAAGAGCTAATTGAAGCAGAGGAGGAAGAGGAGACCCCTCTAAGCTCTTATACCACACCCTC
 TAAGGGTCTCTCAAGCGAGTTAGCAGCACCCAGAAACCCCTAACCAAAAGGAGCGTCGCTGCTCGC
 AGCCACGTCAGCTTCTCACCCTCAAGTTTCTCCCGAGTGTACCCCTCCAGAAAATACACCTCCA
 GAACCAACCGGGAGAAGTGGTACCACCTTTGGCTCCGCACAGGGCTTGTCTTGGTCCGGGAGAGGAGG
 CTCTGGAAGCGTCAGTCTAAAGTCTGGGGACCCAGAGCCACTCACTGGCAGTACAAAGCGATGTTT
 CAGCAGCTCATGGGTGTTGAGAAGTCTGACCAGTAAGATCGAAGAGCTCGGCAGCGAGCTGAAGGAGC
 ATCACAAGATCGAGGCCCTTACCCTCTCTGGTCCCAGCGCAAGAGCCTGTTATTCTCCTGGGTGAGT
 TGGCTGCGACAGCAACGGGAAGCTGAACAGCAAGTCCGTGATTCTCGAGGGGACCCAGGAGCACTCCTAT
 GGCGCGCAGATCCAGTGGACCTATCGAACTCAAAGAGTATCCCTCTCCCTGGACAGGTTGTAATTA
 TGGAAGGATTCAACACCACTGGTAGGAGACTTACTGCCACAACTCTATGAGGGCGTGCCACTTCCGTT
 CTATCAGCCTACTGAAGAGGAGGAGCTTCTGAGCAGACTATGGTGGTAGTTGCCTGCGGGCCTTATACC
 ACCTCCGACAGCATCACCTATGACCCCTGCTTGATCTGATCGCCATCATCAACCGTGACCAGCCAGATG
 TCTGCATCTGTTCCGACCTTCTGGATGCTAAACATGAACAGTGGAGAAGTAAAGTGAAGGAGCC
 ATTCGAAGACGTTTTCAAGCAATGCCTGAGAACAGTTATCGAAGGAACGAGAAGCTCCGGCTCCACCTT
 GTCTTTGTCCCGTCTCTGAGGATGTCCATCATGAGCCAGTATACCCACAGCCGCCTTTCACCTTCTCCG
 AGCTGTCTCGAGAGGACAAAAAGCGAGTGCAGTTTGTGTCAGAGCCCTGCAGCCTCTCCATAAATGGAGT
 GATGTTTGGTTTACATCCACGGACCTGCTGTTCCACATCGGGGCTGAGGAGATCTTTAGCTCTTCCGGG
 ACGTCAGACAGATTACGCCGAGTCTTAAGCATATCCTGAGCAGAGAAGTACTACCCACTTTATCCAC
 CCCACGAGGACATGGCCATAGACTACGAGAAGTCTATACCTATGCCAGCTGCCGGTACCCCCGATGT
 CTTCATAGTGCCGCTCCGAGCTGAGATACTTTGTGAAGGACATCTTTGGCTGTGTCTGTGTAATCCTGGG
 CGGCTCACGAAAGGACAAGTGGCGGCACCTTTGGCCCTCTACCTCAGGAGGCAGCCCAAGGCCATGG
 ACGGTGGGGCAGGCAGGCCTGAGCGTGGCAGCCAGGTGGTCAGAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209308 representing NM_008893
 Red=Cloning site Green=Tags(s)

MAVSTQQLAEELQIFGLDYEDSLLEKLAELCVLYRQTEDGMVSELI AFCT SAGKTCLTV DILNSFEYEV L
 NKKLSKAWHSASKDSGHAGTRDIVSIQELIEAE EEEETLLSSYTPSKGPLKRVSSSTPETPLTKRSVAAR
 SPRQLLSPSSFSPSATPSQKYTSRTNRGEVVTTFGSAQGLSWSGRGGSGSVSLKVVDPEPLTGSYKAMF
 QQLMGVREVLTSKIEELGSELKEHHKIEAFTPLL VPAQEPVILLGQIGCDSNGKLNKSVILEGDQEHSY
 GAQIPVDLSELKEYSLFPGQV VIMEGFNTGRRLTATKLYEGVPLPFYQPTEEEGASEQTMVVVACGPYT
 TSDSITYDPLLDLIAIINRDQPDVCILFGPFLDAKHEQVENCKL TSPFEDVFKQLRTVIEGTRSSGSHL
 VFVPSLRDVHHEPVYPQPPFTFSELSREDKRVQFVSEPCSL SINGVMFGLTSTDLLFHIGAEEIFSSSG
 TSDRFSRVLKHILTQRSYPLYPPHEDMAIDYENFYTAQLPVTDPVFI VPSRLRYFVKDIFGCVCVNPGR
 RLTKGQVGGTFGRLYLRRQPKAMDGGGRQGLSVAQVVR I

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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_008893.2 , NP_032919.2
RefSeq Size:	2410 bp
RefSeq ORF:	1803 bp
Locus ID:	18969
UniProt ID:	P33611
Cytogenetics:	19 A
Gene Summary:	May play an essential role at the early stage of chromosomal DNA replication by coupling the polymerase alpha/primase complex to the cellular replication machinery.[UniProtKB/Swiss-Prot Function]