

Product datasheet for **MG218152**

Pola2 (NM_001164057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pola2 (NM_001164057) 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:

>MG218152 representing NM_001164057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGTGTCCACCCAGCAGCTGGCGGAGGAACACTACAGATCTTCGGCCTGGACTACGAGGACTCCCTGT
 TGGAGAACTGGCAGAGCTGTGTCTTATACCGACAGACTGAGGACGGGATGGTCAGTGAGCTCATCGC
 CTTCTGCACCAAGTGGCGGGAAGACATGCCTTACTGTAGACATCCTGAACTCTTTGAATACGAGGTTCTG
 AACAAAAAAGCTCTCAAAGCCTGGCACAGTGCCTCAAAGACAGTGGGCATGCAGGAACAGAGACATTG
 TTTCTATAACAAGAGCTAATTGAAGCAGAGGAGGAAGAGGAGACCCCTCTAAGCTCTTATACCACACCCTC
 TAAGGGTCTCTCAAGCGAGTTAGCAGCACCCAGAAACCCCTAACCAAAAGGAGCGTCGCTGCTCGC
 AGCCACGTCAGCTTCTCACCGTCAAGTTTCTCCCGAGTGTACCCCTCCAGAAAATACACCTCCA
 GAACCAACCGGGAGAAGTGGTACCACCTTTGGCTCCGCACAGGGCTTGTCTTGGTCCGGGAGAGGAGG
 CTCTGGAAGCGTCAGTCTGAAGTCTGGGGACCCAGAGCCACTCACTGGCAGTACAAAGCGATGTTT
 CAGCAGCTCATGGGTGTTTCGAGAAGTCTGACCAGTAAGATCGAAGAGCTCGGCAGCGAGCTGAAGGAGC
 ATCACAAGATCGAGGCCCTTACCCTCTCTGGTCCCAGCGCAAGAGCCTGTTATTCTCCTGGGTGAGT
 TGGCTGCGACAGCAACGGGAAGCTGAACAGCAAGTCCGTGATTCTCGAGGGGACCCAGGAGCACTCCTAT
 GGCGCGCAGATCCAGTGGACCTATCGGAACTCAAAGAGTATCCCTCTTCCCTGGACAGGTTGTAATTA
 TGGAAGGATTCAACACCACTGGTAGGAGACTTACTGCCACAACTCTATGAGGGCGTGCCACTTCCGTT
 CTATCAGCCTACTGAAGAGGAGGAGCTTCTGAGCAGACTATGGTGGTAGTTGCCTGCGGGCCTTATACC
 ACCTCCGACAGCATCACCTATGACCCCTGCTTGATCTGATCGCCATCATCAACCGTGACCAGCCAGATG
 TCTGCATCCTGTTCCGACCTTCTGGATGCTAAACATGAACAGTGGAGAAGTAAAGTGAAGGAGCC
 ATTCGAAGACGTTTTCAAGCAATGCCTGAGAACAGTTATCGAAGGAACGAGAAGCTCCGGCTCCACCTT
 GTCTTTGTCCCGTCTCTGAGGATGTCCATCATGAGCCAGTATACCCACAGCCGCCTTTACCTTCTCCG
 AGCTGTCTCGAGAGGACAAAAAGCGAGTGCAGTTTGTGTCAGAGCCCTGCAGCCTCTCCATAAATGGAGT
 GATGTTTGGTTTACATCCACGGACCTGCTGTTCCACATCGGGGCTGAGGAGATCTTTAGCTCTTCCGGG
 ACGTCAGACAGATTACGCCGAGTCTTAAGCATATCCTGAGCAGAGAAGTACTACCCACTTTATCCAC
 CCCACGAGGACATGGCCATAGACTACGAGAAGTCTATACCTATGCCAGCTGCCGGTACCCCCGATGT
 CTTTCATAGTCCCGTCCGAGCTGAGATACTTTGTGAAGGGGAGCATTTTGAAGCAGGGTCTCTACAGCC
 AGAATGTTCTGGAACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218152 representing NM_001164057
 Red=Cloning site Green=Tags(s)

MAVSTQQLAEELQIFGLDYEDSLLEKLAELCVLYRQTEDGMVSELI AFCT SAGK TCLTV DILNSFEYEV L
 NKKLSKAWHSASKDSGHAGTRDIVSIQELIEAE EEEETLLSSYTPSKGPLKRVSSPTPETLTKRSVAAR
 SPRQLLSPSSFSPSATPSQKYTSRTNRGEVVTTFGSAQGLSWSGRGSGSVSLKVVGDPEPLTGSYKAMF
 QQLMGVREVLTSKIEELGSELKEHHKIEAFTPLL VPAQEPVILLGQIGCDSNGKLNKSVILEGDQEHSY
 GAQIPVDLSELKEYSLFPGQVVIMEGFNTGRRLTATKLYEGVPLPFYQPTEEEGASEQTMVVVACGPYT
 TSDSITYDPLLDLIAIINRDQPDVCILFGPFLDAKHEQVENCKL TSPFEDVFKQLRTVIEGTRSSGSHL
 VVPSLRD VHHPEVYPQPPFTFSELSREDKRRVQFVSEPCSL SINGVMFGLTSTDLLFHIGAEEIFSSSG
 TSDRF SRVLKHILTQRSYPLYPHEDMAIDYENFYTAQLPVTDPVFI VPSSELYFVKQGHFEAGSLQP
 RMFWNP

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_001164057.1 , NP_001157529.1
RefSeq Size:	2397 bp
RefSeq ORF:	1701 bp
Locus ID:	18969
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]