

Product datasheet for **MG205518**

Pola2 (BC006945) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Pola2 (BC006945) 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) |
| ORF Nucleotide Sequence: | >MG205518 representing BC006945 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCGTGTCCACCCAGCAGCTGGCGGAGGAACACAGATCTTCGGCCTGGACTACGAGGACTCCCTGT
TGGAGAACTGGCAGAGCTGTGTCTATACCGACAGACTGAGGACGGGATGGTCAGTGAGCTCATCGC
CTTCTGCACCAGTGGCGGAAGACATGCCTTACTGTAGACATCCTGAACCTTTTGAATACGAGGTTCTG
AACAAAAACTCTCAAAGCCTGGCACAGTGCCTCAAAGACAGTGGGCATGCAGGAACAGAGACATTG
TTTCTATAACAAGAGCTAATTGAAGCAGAGGAGGAAGAGGAGACCCTCCTAAGCTTTATACCACACCTC
TAAGGGTCCTCTCAAGCGAGTTAGCAGCACCCAGAAACCCCTAACCAAAAGGAGCGTCGCTGCTCGC
AGCCACAGTCAGCTTCTCTCACCGTCAAGTTTCTCCCGAGTGCTACCCCTCCCAGAAATACACCTCCA
GAACCAACCGGGGAGAAGTGGTGACCACCTTTGGCTCCGCACAGGGCTTGTCTTGGTCCGGGAGAGGAGG
CTCTGGAAGCGTCAGTCTAAAGGTGCTGGGGGACCCAGAGCCACTCACTGGCAGCTACAAAGCGATGTTT
CAGCAGCTCATGGGTGTTTCGAGAAGTCTGACCAGTAAGATCGAAGAGCTCGGCAGCGAGCTGAAGGAGC
ATCACAAGATCGAGGCCCTTACCCTCTCTGGTCCCAGCGCAAGAGCCTGTTATTCTCTGGGTGAGT
TGGCTGCGACAGCAACGGGAAGCTGAACAGCAAGTCCGTGATTCTCGAGGGGACCAGGAGCACTCCTAT
GGCGCGCAGATCCCAGTGGACCTATCGGAACCTCAAAGAGTATCCCTCTCCCTGGACAGGTTGTAATTA
TGGAAGGATTCAACACCACTGGTAGGAGACTTACTGCCACCAAACCTATGAGGTACAGGGTGGGCCTCC
CCTCCCCACTCCACATTGGCTTCAGGCTCAGTATGTTGAGTTCTGGTAAAGATGCTGGTCCTTTTCAG
TCTCTGCATTAGCTAGGCTTTTCTGTTT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205518 representing BC006945
 Red=Cloning site Green=Tags(s)

MAVSTQQLAEELQIFGLDYEDSLLEKLAELCVLYRQTEDGMVSELI AFCT SAGKTCLTV DILNSFEYEV L
 NKKLSKAWHSASKDSGHAGTRDIVSIQELIEAE EEEETLLSSYTPSKGPKRVSS TPETPLTKRSVAAR
 SPRQLLSPSSFSPSATPSQKYTSRTNRGEVVTTFGSAQGLSWSGRGGSGSVSLKVVGDPEPLTGSYKAMF
 QQLMGVREVLTSKIEELGSELKEHHKIEAFTPLL VPAQEPVILLGQIGCD SNGKLNKSVILEGDQEHSY
 GAQIPVDLSELKEYSLFPQVVIMEGFNTTGRRLTATKLYEVQGGPPLPHSTLASGSVCSVLVKDAGPFQ
 SLSLARLFCF

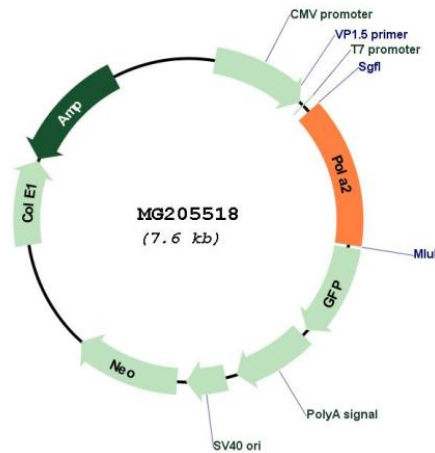
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC006945

| | |
|-------------------------------|---|
| ORF Size: | 1082 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: | <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: | BC006945 , AAH06945 |
| RefSeq Size: | 2514 bp |
| RefSeq ORF: | 1082 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] |