

Product datasheet for MR205518

Pola2 (BC006945) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pola2 (BC006945) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pola2
Synonyms:	A1573378
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205518 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTGTCCACCCAGCAGCTGGCGGAGGAACACAGATCTTCGGCCTGGACTACGAGGACTCCCTGT
TGGAGAACTGGCAGAGCTGTGTCTATACCGACAGACTGAGGACGGGATGGTCAGTGAGCTCATCGC
CTTCTGCACCAGTGGCGGAAGACATGCCTTACTGTAGACATCCTGAACCTTTTGAATACGAGGTTCTG
AACAAAAACTCTCAAAGCCTGGCACAGTGCCTCAAAGACAGTGGGCATGCAGGAACAGAGACATTG
TTTCTATACAAGAGCTAATTGAAGCAGAGGAGGAAGAGGAGACCCTCCTAAGCTTTATACCACACCTC
TAAGGGTCCTCTCAAGCGAGTTAGCAGCACCCAGAAACCCCTAACCAAAAGGAGCGTCGCTGCTCGC
AGCCACAGTCAGCTTCTCTACCGTCAAGTTTCTCCCGAGTGCTACCCCTCCCAGAAATACACCTCCA
GAACCAACCGGGGAGAAGTGGTGACCACCTTTGGCTCCGCACAGGGCTTGTCTTGGTCCGGGAGAGGAGG
CTCTGGAAGCGTCAGTCTAAAGTCTGGGGGACCCAGAGCCACTCACTGGCAGCTACAAAGCGATGTTT
CAGCAGCTCATGGGTGTTGAGAAGTCTGACCAGTAAGATCGAAGAGCTCGGCAGCGAGCTGAAGGAGC
ATCACAAGATCGAGGCCCTTACCCTCTCTGGTCCCAGCGCAAGAGCCTGTTATCTCTGGGTGAGT
TGGCTGCGACAGCAACGGGAAGCTGAACAGCAAGTCCGTGATTCTCGAGGGGACCAGGAGCACTCCTAT
GGCGCGCAGATCCCAGTGGACCTATCGGAACCAAGAGTATCCCTCTCCCTGGACAGGTTGTAATTA
TGGAAGGATTCAACACCACTGGTAGGAGACTTACTGCCACCAAACTCTATGAGGTACAGGGTGGGCTCC
CCTCCCCACTCCACATTGGCTTCAGGCTCAGTATGTTGAGTCTGGTAAAGATGCTGGTCTTTTCAG
TCTCTGCATTAGCTAGGCTTTTCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205518 protein sequence
 Red=Cloning site Green=Tags(s)

MAVSTQQLAEELQIFGLDYEDSLLEKLAELCVLYRQTEDGMVSELI AFCT SAGKTCLTV DILNSFEYEV L
 NKKLSKAWHSASKDSGHAGTRDIVSIQELIEAE EEEETLLSSYTPSKGPKRVSS TPETPLTKRSVAAR
 SPRQLLSPSSFSPSATPSQKYTSRTN RGEVVTTFGSAQGLSWSGRGGSGSVSLKVVGDPEPLTGSYKAMF
 QQLMGVREVLTSKIEELGSELKEHHKIEAFTPLL VPAQEPVILLGQIGCD SNGKLNKSVILEGDQEH SY
 GAQIPVDLSELKEYSLFPQVVIMEGFNTTGRRLTATKLYEVQGGPPLPHSTLASGVS CVL VKDAGPFQ
 SLSLARLFCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC006945

ORF Size: 1080 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: [BC006945](#), [AAH06945](#)

RefSeq Size: 2514 bp

RefSeq ORF: 1082 bp

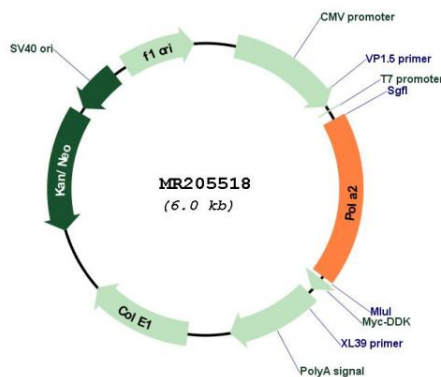
Locus ID: 18969

Cytogenetics: 19 A

MW: 38.9 kDa

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]

Product images:



Circular map for MR205518