

Product datasheet for **MR218152**

Pola2 (NM_001164057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pola2 (NM_001164057) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pola2
Synonyms:	A1573378
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218152 representing NM_001164057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGTGTCCACCCAGCAGCTGGCGGAGGAACACTACAGATCTTCGGCCTGGACTACGAGGACTCCCTGT
 TGGAGAAACTGGCAGAGCTGTGTCTTATACCGACAGACTGAGGACGGGATGGTCAGTGAGCTCATCGC
 CTTCTGCACCAAGTGGCGGGAAGACATGCCTTACTGTAGACATCCTGAACTCTTTGAATACGAGGTTCTG
 AACAAAAAAGCTCTCAAAGCCTGGCACAGTGCCTCAAAGACAGTGGGCATGCAGGAACAGAGACATTG
 TTTCTATAACAAGAGCTAATTGAAGCAGAGGAGGAAGAGGAGACCTCCTAAGCTCTTATACCACACCCTC
 TAAGGGTCTCTCAAGCGAGTTAGCAGCACCCAGAAACCCCTAACCAAAAGGAGCGTCGCTGCTCGC
 AGCCACGTCAGCTTCTCACCCTCAAGTTTCTCCCGAGTGTACCCCTCCAGAAATACACCTCCA
 GAACCAACCGGGAGAAGTGGTACCACCTTTGGCTCCGCACAGGGCTTGTCTTGGTCCGGGAGAGGAGG
 CTCTGGAAGCGTCAGTCTGAAGTCTGGGGACCCAGAGCCACTCACTGGCAGTACAAAGCGATGTTT
 CAGCAGCTCATGGGTGTTTCGAGAAGTCTGACCAGTAAGATCGAAGAGCTCGGCAGCGAGCTGAAGGAGC
 ATCACAAGATCGAGGCCCTTACCCTCTCTGGTCCCAGCGCAAGAGCCTGTTATTCTCCTGGGTGAGT
 TGGCTGCGACAGCAACGGGAAGCTGAACAGCAAGTCCGTGATTCTCGAGGGGACCCAGGAGCACTCCTAT
 GGCGCGCAGATCCAGTGGACCTATCGGAACTCAAAGAGTATCCCTCTTCCCTGGACAGGTTGTAATTA
 TGGAAGGATTCAACACCACTGGTAGGAGACTTACTGCCACCAAATCTATGAGGGCGTGCCACTTCCGTT
 CTATCAGCCTACTGAAGAGGAGGAGCTTCTGAGCAGACTATGGTGGTAGTTGCCTGCGGGCCTTATACC
 ACCTCCGACAGCATCACCTATGACCCCTGCTTGATCTGATCGCCATCATCAACCGTGACCAGCCAGATG
 TCTGCATCCTGTTCCGACCTTCTGGATGCTAAACATGAACAGTGGAGAAGTAAAGTGAACAGCC
 ATTCGAAGACGTTTTCAAGCAATGCCTGAGAACAGTTATCGAAGGAACGAGAAGCTCCGGCTCCACCTT
 GTCTTTGTCCCGTCTCTGAGGATGTCCATCATGAGCCAGTATACCCACAGCCGCCTTTACCTTCTCCG
 AGCTGTCTCGAGAGGACAAAAAGCGAGTGCAGTTTGTGTCAGAGCCCTGCAGCCTCTCCATAAATGGAGT
 GATGTTTGGTTTGACATCCACGGACCTGCTGTTCCACATCGGGGCTGAGGAGATCTTTAGCTTCCGGG
 ACGTCAGACAGATTACGCCGAGTCTTAAGCATATCCTGAGCAGAGAAGTACTACCCACTTTATCCAC
 CCCACGAGGACATGGCCATAGACTACGAGAAGTCTATACCTATGCCAGCTGCCGGTACCCCCGATGT
 CTTCATAGTGCCGTCGAGCTGAGATACTTTGTGAAGGGGCAGCATTTTGAAGCAGGGTCTCTACAGCC
 AGAATGTTCTGGAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218152 representing NM_001164057
 Red=Cloning site Green=Tags(s)

MAVSTQQLAEELQIFGLDYEDSLLEKLAELCVLYRQTEDGMVSELIAFCTSAAGTKLTVLDILNSFEYEV
 NKKLSKAWHSASKDSGHAGTRDIVSIQELIEAEETLLSSYTPSKGPLKRVSSPTPETPLTKRSVAAR
 SPRQLLSPSSFSPSATPSQKYTSRTNRGEVVTTFGSAQGLSWSGRGGSGSVSLKVVGDPEPLTGSYKAMF
 QQLMGVREVLTSKIEELGSELKEHHKIEAFTPLLVPAPQEPVILLGQIGCDSNGKLNKSVILEGDQEHY
 GAQIPVDLSELKEYSLFPGQVIMEGFNNTGRRLLATKLYEGVPLPFYQPTEEEGASEQTMVVVACGPYT
 TSDSITYDPLLDLIAIINRDQPDVCILFGPFLDAKHEQVENCKLTSFPEDVFKQLRTVIEGTRSSGSHL
 VFPVSLRDVHHEPVYPQPPFTFSELSREDKRVQFVSEPCSLSINGVMFGLTSTDLLFHIGAEEIFSSSG
 TSDRF SRVLKHILQRSYYPLYPHEDMAIDYENFYTAQLPVTDPVFI VPSSELRYFVKQHFHFEAGSLQP
 RMFWNP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

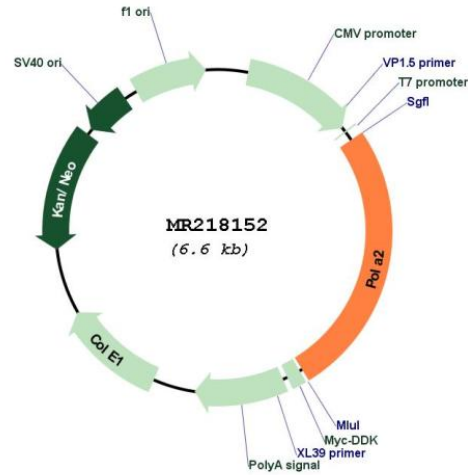
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001164057
 ORF Size: 1698 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:	NM_001164057.1 , NP_001157529.1
RefSeq Size:	2397 bp
RefSeq ORF:	1701 bp
Locus ID:	18969
Cytogenetics:	19 A
MW:	63.3 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]