

## Product datasheet for RN217636

### Pola1 (NM\_053479) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pola1 (NM_053479) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pola1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217636 representing NM_053479 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCGCCTGTTCACGGAGACGACTGCAAACCTGGAACAAGCGCTGTGTGATTCAGATTACGGGAGTTTGTAG  
CTTCTCGAGCACGTCGAGAAAAAATCAAAGAAAGGACGCCAAGAAGCTTTAGAGCGACTGAAAAAGGC  
TAAAGCTGGTGAGAAGTACAAGTATGAAGTTGAGGACCTCACAAGTGTTTATGAAGAAGTTGATGAAGAG  
CAGTATTCAAAACCTGGTTCAGGCACGTCAGGATGATGACTGGATCGTGGATGACGACGGTATAGGCTATG  
TGGAAGACGGTAGAGAGATTTTTGATGACGACCTTGAAGATGATGCACCTGACACCTGTGGGAAGGAAG  
TGATGGCAAAGCACACAGAAAGGACAGGAAGGATGTAAGAAACCTTCAGTGACAAAACCAACAATATC  
AAGGCAATGTTTCATTGCTAGTGTGGGAAGAAAACACAGATAAAACAGTTGACTTGCCAAAGGATGATC  
TGCTAGGTGACATTCTACAGGATCTGAACACTGAGACACCTCAAATAGCTCCACCGCCAGTATTGATACC  
AAAGAAAAAAGATCTACTGGAGCTTCACCGAATCCTTTCTGTGCACACCGCCACGGCAGTTCCTTCA  
GGAAAAATTGCTTCCCCTGTCTCCAGAAAGGAGCCTCCATTAACCTCTTAAACGTGCTGAAT  
TTGCTGGCGATCTGGCTCAGCCAGAGTGTCCAGAAGATGAGCAGGAGTCAGGGGTTATAGAGTTTGAAGA  
TGCGGACTTTGATGAGCCATGGACACAGAGGAAGTAGATGAGGAGGAGCCTGTGACTGCCAAGATTTGG  
GACCAAGAGAGTGAGCCAGTGGAAAGGGTGAAGCATGAGGCAGATCCTGAGACGGGAACCATCTTTCT  
TAGACAGTTTTCTCCAGATGTTTTCTGTTGGGACATTGATCAGAAGGACGAAAAAGTTTCTTACTTCA  
AGAAGTTCAAGTGGACTCCAATCATCTCCCGTTGGTAAAAGGGGCAGATGATGAACAAGTCTTTCAGTTT  
TATTGGCTGGATGCTTATGAAGATCCATAACAACCAACAGGTGTGGTTTTCTGTTTGGCAAAGTATGGG  
TCGAATCAGCCAAAACCCATGTGAGCTGTTGTGTTATGGTAAAAAATATTGAGCGAACACTCTACTTCTC  
TCCCCTGAAAATGAAAATGACCTAAACACAGGGAAAAGAAACAGCAACTCCAATTACAATGAAGGATGTT  
TATGAAGAATTTGATTCAAAAATTTTCAGCAAAAATAAAAATAATGAAGTTCAAGTCCAAGATAGTGGAAA  
AGAACTATGCTTTTGGATACCTGATGTTCCAGAAAAATCTGAGTACTTGGAAAGTTAGATACTCGGCAGA  
AGTGCCACAGCTTCCACAGAATTTAAAAGGAGAAACATTTTTCTCATGATTTGGAACCTAACACGTCTAGC  
TTGAACTGTTCTTGATGAATAGAAAGATCAAAGGACCCTGTTGGCTTGAAGTAAAAAATCCACAACCTCT  
TGAATCAACCAATCAGTTGGTGTAAATTTGAGGCAATGGCTTTGAAACCAGACTTGGTGAATGTAATTA  
GGATGTCAGTCTCTCCACTTGTGGTGTGCTTTTCAGCATGAAGACAATGCAAAATGTACAGAACCAT



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CAACACGAGATCATTGCTATGGCAGCGCTGGTTCATCACAATTTCCCATAGATAAAGCACCTCCAAAAC  
 CTCCCTTTAGACGCATTTCTGTGTTGTGTCTAAACAAAGGACTGTATTTCCCATGCGCTTTCAAAGA  
 AGTCATTAAGAAAAAGAAATATGGAGGTTGAGGTTGCTGCAACAGAAAGAACTTTGCTAGGATTTTCCTT  
 GCAAAAGTTACAAAACCTGACCCGTGATTTCTCGTGGGTGATAATTTGTGGTTTTGAAGTAGAAGTGC  
 TACTGCAAGAATAATGAGTGAAGGTTCTTTCTGGTCCAAGATAGGTCGGCTGAGGAGATCCAACAT  
 GCCAAAACCTGGGAGCCGGAGTGGATTTGGTAAAAGAAATGCTACCTGTGGTCAATGATATGTGATGTG  
 GAAATTTTCAGTAAAAGAATTGATTCATTGTAAGTAAAGTTACCATTTGCTGAACCTTTGACAGATTTCTGA  
 AAATGAGAGGATTGTAATTCACAGAAAATATACGAAACATGTATAGTGAACCTTCTCATCTGTTGTA  
 CCTGTTGGAACACATCTGAAAGATGCCAGATTCATTTTGCAGATCATGTGTGAGCTAAATGTTCTTCCA  
 TTAGCATTGCAGATCACTAACATCGCTGGGAACATTATGTCTAGGACACTGATGGGTGGACGATCTGAGC  
 GAAACGAGTTTTTGTGCTTCATGCATTTTATGAAAACAATAATTGTGCCTGACAAGCAGATTTTCAG  
 AAAACCTCAGCAAAAACCGGAGATGAAGATGAAGAAATGATGGGGATACCAATAAATAAAGAAAGGA  
 CGCAAGAAAGCAGCTTATGCTGGAGGCTGGTTTTGGACCCAAAGTTGGTTTTTATGACAAGTTCATTT  
 TGCTCCTGGATTTCAACAGTTTATATCCTTCCATCATTGAGGAAATTAACATTTGTTTTACAACAGTGC  
 AAGAGTTGCTTCAGAGACTGAAAGCTACAGAGGATGAGGAACAAGAACAGATTCAGAGTTGCCAGAT  
 CCAAACTTAGATATGGGCATTTGCCAGAGAGATCCGGAAACTGGTAGAGCGGAGAAAACAAGTGAAC  
 AGCTAATGAAACAGCAAGATTTAAATCCAGACCTGTTCTTCAGTATGATATCCGACAGAAGGCTTTGAA  
 GCTCACAGCGAACAGTATGTATGGTTGCCTGGGATTTTCGTACAGCAGATTTTATGCTAAACCGCTGGCT  
 GCCTTGGTGACATACAAAGGAAGGGAGATTTGATGCACACGAAAGAGATGGTACAGAAGATGAATCTTG  
 AAGTTATTTATGGAGACACAGATTCATTTATGATAAATACCAATAGCACCAACCTGGAAGAAGTCTTTAA  
 GTTGGGAAACAAGGTAATAATGAAGTGAATAAATGTACAACTGCTTGAATAGACATTTGATGGTGT  
 TTCAAGTCTCTGCTATTGCTGAAGAAAAAGAAATATGCTGCTTAGTTGTGCAACCAACATCCGATGGGA  
 ATTACATCACCAAGCAGGAAGTGAAGGATGGATATAGTTAGAAGGGACTGGTGTGATTTGCCAAGGA  
 CACCGGAAACTTTGTCTTGGCCAGATTTCTTCTGATCAAAGTCGGGACACCATTGTGAAAACATTCAG  
 AAGAGGTTAATAGAAATGGAGAAAATGTGCTAAACGGCAGTGTCCAGTGAGCCAGTTTGAATTAACA  
 AGGCATTGACAAAGGATCCCGAGGATTACCCTGATAAAAAAGTCTACCTCATGTACATGTTGCACTGTG  
 GATAAATCTCAAGGAGGCAGGAAGGTGAAAGCTGGCGATACAGTGCATATGTTATCTGTCAGGATGGG  
 TCAAACTCCCTGCAACTCAGAGGGCTATGCACCCGAGCAATTCAGAAAACAGGACAATTTAGCCATCG  
 ACACCCAGTACTACTGGCCAGCAGATCCACCCTGTTGGCTCGAATCTGTGAGCCAATAGATGGAAT  
 TGATGCTGTACTATTGCATTATGGCTAGGACTGACTCCACTCAATTTAGAGTTTCATCAGTATCACAAA  
 GATGAAGAGAATGATGCTCTCCTTGGTGGTCCAGCACAGCTAACTGATGAAGAGAATACAAGGATTGTG  
 AAAAATTCAAATGCCTTTGTCTTCATGTGGAAGTGAATAATTTATGATAATGTCTTTGAAGGCTCGGG  
 AATGGATATGGAGCCAGCTTGAATCGTTGCAGTAATATTGATTGAAGGCTTACCAGCGACCTTTATG  
 GTACAGTTGAGCAACAAATTGATCATGGACATTAGACGTTGCATTAAGAAAGTACTATGATGGCTGGTTGA  
 TATGTGAGGAGCAACTTGTGCGCAATCGCATTCTGTCGCTTCCCTTTCATTTCTCCCGAAATGGGCTCT  
 GTGTCCAGCCTGCATGAAAGCTGTGCTCAGACCAGAGTATTCTGACAAGTCCCTGTACACCCAGCTGTGC  
 TTTTACCGGTACATTTTGTGCGGACTGTGACTGAAAAACTTCTGAAACACGAGAAAGATAAATTGA  
 AGAAGCAGTTTTTCACTCCAGAGTTCTTCCAGGACTACAGAAAAGTCAAGAACATAGCAGAACACTTCTT  
 GTCTGGAGTGGCTACTCTGAAGTAAACCTCAGCAAGCTTTCGCAATTATGCTGGGAAGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_053479

**Insert Size:**

4407 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053479.1</a> , <a href="#">NP_445931.1</a>
<b>RefSeq Size:</b>	5321 bp
<b>RefSeq ORF:</b>	4407 bp
<b>Locus ID:</b>	85241
<b>UniProt ID:</b>	<a href="#">O89042</a>
<b>Cytogenetics:</b>	Xq22
<b>Gene Summary:</b>	exhibits DNA polymerase alpha activity; may mediate DNA replication process [RGD, Feb 2006]