

## Product datasheet for RN213101

### Pold1 (NM\_021662) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pold1 (NM_021662) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pold1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN213101 representing NM_021662 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATGGTAAACGGCGGCAAGCGCCAGCTCTGGGGTGCCCCAAAGCGGGCTTGAAGGGCCTCTGGG  
ATGAAGATGAGCCGTACAGTTTGAGGAGAACCTGGCGCTGCTGGAGGAGATAGAGGCCGAGAATCGGCT  
GCAGGAGGCCGAGGAGGAGCTGCAGCTGCCCTGAGGGCATTGTGGGTGGCAGTTTTCCACTGCAGAC  
ATTGACCCACGGTGGCTGCGGCCACCCCACTTGCCCTGGACCCAGCAGCGAGGCCCTCATCTTCAGC  
AGCTGGAGATTGACCACTATGTGGGCACATCACCTCCCCTGCCAGAAGGACCCCCCGCATCTCGTAACTC  
AGTGCCCATACTGAGGGCCTTTGGGGTCACCGATGAGGGCTTCTCCGTCTGCTGCCACATCCACGGCTTT  
GCCCCCTACTTACACCCCTGCACCTCCGGGTTTTGGGGCTGAGCACCTGAGTGAACACAGCGGGAGC  
TGAATGCAGCCATCAGCCGGGACCAGCGTGGTGGAAAGGAGCTCTCGGGCCGGCAGTGTAGCTATAGA  
GCTGTGCTCCCGTGAGAGCATGTTGGGTACCATGGCCACGGCCCTTCTCCCTTCTCCGCATCACCTG  
GCACTACCCCGCTGATGGCGCCAGCCCGCCCTCCTGGAACAGGGTATCCGAGTGCCAGGCCCTGGCA  
CCCCGAGCTTTGCACCCTATGAAGCCAATGTGGACTTTGAGATCCGGTTCATGGTGGATGCTGACATTGT  
GGGATGCAACTGGTTGGAGCTCCAGCTGGAAAGTACGTTCCGAGGGCAGAGAAGAAGGCTACACTGTGT  
CAGCTGGAGGTGGATGTGCTGTGGTCAGACGTGATCAGTCACCCACCAGAAAGGGCAGTGGCAGCGCATCG  
CACCCCTGCGTGTGCTTAGCTTCGACATCGAGTGCCTGGCCGAAAAGGCATCTTCCCTGAGCCTGAGCG  
TGACCCCGTGATCCAGATCTGTTCTCTGGGGCTGCGCTGGGGTGGCCAGAGCCCTTCTTGCCTAGCA  
CTCAGCTGCGGCCTTGCGCCCATCTGGGTGCCAAAGTACAGAGCTATGAACGGGAAGAAGACCTGC  
TCCAGGCCTGGGCCACTTTCATCTCGCCATGGACCTGACGTGATCACCGGCTACAACATTCAGAACTT  
TGACCTCCCCTACCTCATCTCTCGGGCACAACCTTAAGGTGGACCGATTCCCTTTCTGGGCCGTGTG  
ACTGGTCTCCGCTCCAACATCCGTGACTCCTCCTTCCAATCAAGCAGGTGGCCGGCCGGCAGATAAGG  
TGGTCAGCATGGTGGGTGCGTTTCAGATGGATATGCTGCAGGTGCTGCTTCGGGAGTACAAGCTCCGCTC  
CTACACGCTCAACGCTGTGAGCTTCCACTTCTGGGTGAGCAGAAGGAGGACGTACAGCAGCATCATC  
ACTGACCTACAGAATGGGAATGAACAGACGCGTCGCCGCTGGCCGTGACTGCCTGAAGGATGCCTTTC  
TGCCCTTCTCGCTACTCGAGCGCCTTATGGTGTGGTGAACAATGTGGAGATGGCGCGTGTCACTGGTGT  
ACCCCTTGGGTACCTGCTCAGCCGAGGCCAGCAGGTCAAGGTGCTGCTCAGCTGCTGCGCCAGGCCATG



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CGCGAGGGGCTGCTGATGCCTGTGGTGAAGACGGAGGGAGGTGAGGACTACACGGGAGCCACTGTCATTG  
 AGCCCCCTCAAAGGGTACTATGATGTCCCATTCGCCACCCTGGACTTCTCCTCTGTACCCATCCATCAT  
 GATGGCCACAATCTGTGCTACACCACATTGCTACGGCCTGGGGCTGCCAGAAGTTGGGCCTTAAACCA  
 GATGAGTTCATCAAGACACCCACTGGGGATGAGTTTGTGAAGGCATCTGTGCGGAAGGGCCTCCTGCCCC  
 AAATCCTGGAGAATCTGCTGAGTGCCCGGAAGAGGGCCAAGGCTGAGCTGGCTCAGGAGACGGACCCCT  
 GCGGCGACAGGTCTTGGATGGACGGCAGCTGGCACTAAAAGTGAGTCCCAACTCTGTGTATGGCTTCACT  
 GGTGCCAGGTGGCAAGCTGCCGTGTTTGGAGATCTCCAGAGTGTCACTGGTTTCGGGCGGCAGATGA  
 TTGAGAAAACCAAGCAGCTAGTGGAGACCAAGTACACTCTGGAAAATGGCTACGATGCTAATGCCAAGGT  
 GGTCTACGGTGACACTGACTCTGTGATGTGCCGATTTGGTGTCTCCTCTGTGGCTGAGGCAATGTCTCTG  
 GGGCGGGAGGCTGCAAACCTGGGTATCCAGTCACTTCCCATCACCCATCCGGCTGGAGTTCGAGAAGGTTT  
 ACTTTCCCTACCTGCTCATCAGCAAGAAGCGCTATGCCGGCTACTCTTCTCCTCCCGCTCTGATGCCCA  
 TGACAGAATGGACTGCAAGGGCCTGGAGGCTGTGCGTAGGGACAACCTGTCCCCTGGTGGCCAACCTTGTC  
 ACATCCTCTCTGCGCAGAATCCTCGTGGATCGGGACCCTGATGGTGCAGTAGCCCATGCAAAGGATGTCA  
 TCTCGGACCTGCTGTGCAACCGCATAGACATCTCCAACCTGGTCAACCAAAGAGTTGACCCGCGCAGC  
 AGCAGACTACGGGGCAAGCAGGCTCATGTGGAGCTGGCTGAGAGGATGAGGAAGCGTGACCCCGCAGT  
 GCGCCAACTTGGGCGACCGAGTACCCTACGTGATCATTGGTGTCTGCCAAGGGTGTGGCCGCTACATGA  
 AGTCGGAGGACCCCTGTTTGTGCTGGAGCACAGCCTGCCATTGATACTCAGTACTACCTGGAGCAGCA  
 GCTGGCCAAGCCGCTATTGCGCATCTTTGAGCCATTCTGGGTGAGGGCCGCGGGAGTCACTGCTGCTG  
 CGCGGTGACCACACAGCTGCAAAACCGTGTCTACCAGCAAGGTGGGCGGCTTCTGGCCTTACCAAGC  
 GCCGAACTCTTGTATTGGTGGCGCTCCGTAATCGACCATCAAGGAGCCGTGTGTAAGTTCTGTAGCC  
 ACGGGAGTCTGAGCTCTATCAGAAGGAGGTGTACACCTGAATGCCCTGGAGAACGTTTCTCGGCCTC  
 TGGACACAGTGCCAGCGCTGCCAGGGCAGCTTGACAGGATGTATCTGTACCAGCCGCGACTGTCCCA  
 TCTTCTACATGCGCAAGAAGGTGCGCAAGGACCTGGAGGACCAGGAACGGCTGCTGCAGCGCTTTGGACC  
 TCCTGGCCCTGAGGCCTGGTGA

AGCGGACCGACGCTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_021662
- Insert Size:** 3312 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).
- 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:** [NM\\_021662.2](#), [NP\\_067694.1](#)
- RefSeq Size:** 3321 bp

RefSeq ORF: 3312 bp

Locus ID: 59294

UniProt ID: [O54747](#)

Cytogenetics: 1q22

Gene Summary: has DNA polymerase and 3'exonuclease activities; plays roles in DNA replication, base excision repair, and other types of DNA repair [RGD, Feb 2006]