

## Product datasheet for MR200545

### Pole4 (NM\_025882) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pole4 (NM\_025882) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pole4  
**Synonyms:** 2400007P05Rik; 5830430F06Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200545 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGGCGGCAGCGCGGCTGCTGGGAGCGGGACGCCAGAGAGGAAGAGGCTCCCGGAGGGGAGGCAGCGG  
 CTTTCGAGGCCAAGCCCCGACGAGTGCACCCGGGGAGTTCGCCTCTCGAGGCTGCCTTGCGGAGAGT  
 AAAGGCCTTGGTGAAGGCAGACCCTGACGTAACGCTGGCGGGACAGGAAGCCATCTTTATCCTGGCGGT  
 GCCCGGAACTGTTCTGGAGACTATCGCAAAAGATGCCTACTGCTGTGCTCAACAAGGAAAGAGGAAAA  
 CTCTCCAGAGGAGAGATTTGGATAATGCAATAGAAGCTGTGGATGAATTCGCTTTTCTAGAAGGCACCTT  
 GGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200545 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAAAAGSGTPREEEAPGGEEAASQAQAPTSAPGGVRLSRLPLARVKALVKADPDVTLAQEAIIFILAR  
 AAELFVETIAKDAYCCAQQGKRKTLQRRDLDNAIEAVDEFALFLEGLTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_025882

**ORF Size:** 357 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:** [NM\\_025882.3](#)

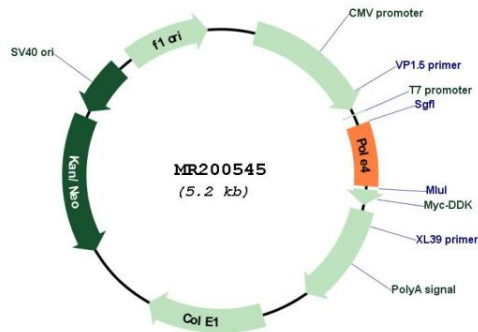
**RefSeq Size:** 1694 bp

**RefSeq ORF:** 357 bp

**Locus ID:** 66979

UniProt ID: [Q9CQ36](#)  
 Cytogenetics: 6 C3  
 MW: 12.2 kDa  
 Gene Summary: May play a role in allowing polymerase epsilon to carry out its replication and/or repair function.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200545