

## Product datasheet for **MR208447**

### **Pole2 (NM\_011133) Mouse Tagged ORF Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Pole2 (NM_011133) Mouse Tagged ORF Clone |
| Tag:               | Myc-DDK                                  |
| Symbol:            | Pole2                                    |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**ORF Nucleotide Sequence:**

>MR208447 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCGGAGCGGCTGCGGAGCCGACGGTCTCAGCTTCAAGCTGCGGGCTTGTCTCAGGAGTG  
 AAGCCACCAAGTATCTGACTGAAGCTCTCCAGTCTGTCACTGAATTGGAGCTAGAGGAGAACCTAGGAAA  
 GATCATCGATGCAGTTGAAAAGCAGCCCTTGTCTCGAACATGATCGAACGATCTGTCGTGGAGGACAGT  
 GTGCAAGAGTGCAGTCACTGTGGATGAGACTATAGAGCACGTTTTCAATATCATTGGAGCTTTTGATA  
 TTCCACGTTTTATATAAATTCAGAAAGGAAAAATTTCTTCTCTATCCATGACTAATCATGCTGCACC  
 AACCTATTTGGAACAGCAAGAGACAAAGCCGAGCTGTATCTTGAACGCTATACCATTTTACACCAGAGG  
 ACACACAGACATGAATTGTTCACTCCTCCGGTATAGGCTCACACCTGAAGAAAGTGGGAGCAAGTTCC  
 AGCTTAAACTATAGAACTTACTGGGTAGCACAAAGTGGTGACGTGATCGTCTGGGGATGAT  
 AACCCAGCTGAAAGAGGGGAAGTTTTCTGGAAGATCCTACTGGAACAGTACAACCTGGACCTTAGTAAA  
 GCTCAGTTCACAGTGGCTTATACACCGAGGCCTGCTTCGTCTGGCAGAAGGTTGGTTTGAAGATCAAG  
 TGTTTCACGCCAATGCCTTTGGATTTCTCCCACTGAGCCCTCCAGCACCAAGGGCGTACTATGGAAA  
 TATTAATTTTTTGGAGGGCCTTCTAATGCATCAGTGAAGACGTATACAAAGCTGAGACAGCTGGAAGAT  
 GAGAACAAGGACGCCATGTTTGTGATTGTGTCTGATGTTGGTTGGACCAAGTGAAGTGTGGAGAAGT  
 TTCATGTAATGTTTTCTGGTACTCGCCAGCACCTCCAACCTGCTTATCTGTGTGGTAATTTTTTCATC  
 TGCACCATATGGAAAAATCAAGTCCAGGCTTTGAAAGATTCCCTAAAATCTTTGGCAGACATAATATGT  
 CCAATTCCAAGTATCCACCAAAGTAGCCGTTTTGTGTTGTGCCTGGCCAGAGGATCCTGGATTTGAGT  
 CAATTTTACCAAGCCGCACTCGCTGAAAGCATCACACAGGAATTCAGACAAAGGGTCCGTTTTTCAGT  
 TTTCACGACTAATCCTTGCAGAATTCAGTATTGTACACAAGAAATAATTATCTTCCGTGAAGACTTAGTG  
 AATAAAATGTGTAGAACTGTGTCGGTTTTCTAGCAGCAGTTTGGATATTCCTACTCACTTCGTAAGA  
 CCATCTTATCTCAGGGACATCTGGCTCCTCCTCTTACGTATGCCCGTCCACTGGGCATATGATTA  
 CACGTTGAGAGTGTACCCGGTCCCGACCTGCTGGTCATTGCAGACAAGTACGACCCGTTACCCTGACC  
 AACACCGATTGCCTCTGCATAAACCTGGCTCCTTCCAAGAAGTGGATTTGCATTCAAAGTTTTTTACC  
 CTTCCAGTAAAACAGTAGAAGACAGCAAACCTTCAGGGCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208447 protein sequence  
 Red=Cloning site Green=Tags(s)

MAPERLRRTVSAFKLRGLLLRSEATKYLTEALQSVTELELEENLGIIDAVEKQPLSSNIERSVVEAA  
 VQEQSQSVDEIEHFVNIIGAFDIPRFIYNSERKKFLPLSMTNHAAPTLFGTARDKAELYLERYTILHQR  
 THRHELFTPPVIGSHLEESGSKFQLKTIETLLGSTSKVGDVIVLGMITQLKEGKFFLEDPTGTVQLDL SK  
 AQFHSGLYTEACFVLAEGWFEDQVFHANAFGFPPTSPSTTRAYYGNINFFGGPSNASVKTYTKLRQLED  
 ENKDAMFVIVSDVWLDQVQVLEKFHVMFSGYSPAPPTCFILCGNFSSAPYGNQVQALKDSLKSLADIIC  
 EYPSIHQSSRFVFPGEDPFGFSGILPRPPLAESITQEFRQRPVFSVFTTNPCRIQYCTQEIIIFREDLV  
 NKMCRNCVRFSSSLDIPHFVKTILSQHLAPLPLYVCPVHWAYDYTLRVYPVLDLLVIADKYDPFTVT  
 NTDCLCINPGSFPRSGFAFKVFYPSKTVEDSKLQGF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

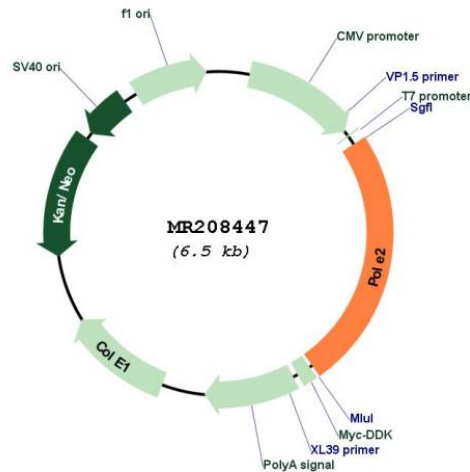
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_011133

**ORF Size:** 1584 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\\_011133.1](#), [NM\\_011133.2](#), [NP\\_035263.1](#)

**RefSeq Size:** 1695 bp

**RefSeq ORF:** 1584 bp

**Locus ID:** 18974

**UniProt ID:** [O54956](#)

**Cytogenetics:** 12 C2

**MW:** 59.4 kDa

**Gene Summary:** Participates in DNA repair and in chromosomal DNA replication.[UniProtKB/Swiss-Prot Function]