

## Product datasheet for **RR216854**

### **Pole2 (NM\_001169108) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pole2 (NM_001169108) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pole2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216854 representing NM\_001169108  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCCGGAGCGGCTGCGGAGCCGACGGTCTCAGCTTCAAGCTTCGGGGCTTGCTGCTCAGGAGTG  
 AAGCCACTAAGTATCTCACTGAAGCTCTCCAGTCTGTCACTGAATTGGAGCTCGAGGAGAACCTAGAAAA  
 GATCATTGATGCAGTTGAAAAGCAGCCCTTGTCATCAAACATGATCGAACGATCTGTAGTGAAGCAGCT  
 GTCCAGGAGTGCAGTCACTGTGATGAGACTATAGAACATATTTTCAATATCATTGGAGCTTTTGATA  
 TTCCACATTTTATATAAATTCAGAAAGAAAAAGTTTCTTCTCTATCAATGACTAACCATGCTGCACC  
 AACCATATTTGGAACAGCAAGGGACAAAGCCGAGCTGTACCGTGAACGATACACCATTTTACACCAGAGG  
 ACGCACAGACATGAATTGTTCACTCCTCCAGTATAGGCTCACACCCGACGAAAGTGAAGCAAATTC  
 AGCTTAAAACAATAGAACTTTGCTGGGTAGTACGAGTAAAGTTGGTACGATGATTGCTTGGAAATGAT  
 AACCCAGTTGAAAGAGGGGAAGTTTCTGGAAGACCCTACTGGAAGTGTACAGCTGGACCTTAGTAAA  
 GCTCAGTTCACAGTGGCCTATACACTGAGGCATGCTTTGTGCTGGCCGAAGGTTGCTTTGAAGATCAAG  
 TGTTTCATGCCAATGCCTTTGGATTTCTCCACGGAGCCCTCTAGCACCAAGGGCATACTATGGAAA  
 TATTAATTTTTTTGGAGGGCCTTCTAATGCGTCAGTGAAGGCTTCTGCAAACTGAGACAGCTGGAAGAG  
 GAGAACAAGGACGCCATGTTTGTGATTGTGTCCGACGTTTGGTTGGATCAAGTCAAGTGTGGAGAAGC  
 TTCACGTAATGTTTTCTGGTTATTCCTTGCACCTCCGACCTGCTTTATACTGTGCGGTAACCTTTTCATC  
 TGCACCATATGGAAAAATCAAGTCCAGGCTTTGAAAGATTCCCTAAAATCTTTGGCAGACATAATATGT  
 GAATACCAAGTATCCACCAAAGTAGCCGTTTGTGTTGTGCTGGCCCGGAGGATCCTGGATTTGGTT  
 CTATTTTACCAAGGCCGCCCTTGCTGAAAGCATCACACAAGAATTGAGACAAAGGGTCCCATTTTCTGT  
 TTTCACACTAAACCCTTGAGAATTGAGTATTGTACACAAGAAATAATTATCTTCCGTGAAGACTTAGTG  
 AATAAAATGTGTAGAACTGTGTCGCTTCTAGCAGCAGTTTGGATATTCTACCCATTTCTGAAAGA  
 CTGTCTTATCTCAGGGACATCTGGCTCCTCCTCTTTACGTGTCCCCGCTACTGGGCATATGACTA  
 CACTTTGAGAGTGTACCCAGTGCCTGCTGCTGGTCAATGCAGACAAGTACGATCCGTTACCCTGACC  
 AACCCGAGTGCCTCTGCATAAACCTGGCTCCTTCCAAGAAGTGGATTTGCATTTAAAGTTTTTTACC  
 CTTCCAGTAAGACAGTAGAAGACAGCAAACCTTCAGGGCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216854 representing NM\_001169108  
 Red=Cloning site Green=Tags(s)

MAPERLRSTVSAFKLRGLLLRSEATKYLTEALQSVTELELEENLEKIIDAVEKQPLSSNMIERSVVEAA  
 VQECSSVDEIEHIFNIIGAFDIPHFYNSERKKFLPLSMTNHAAPTIFGTARDKAELYRERYTILHQR  
 THRHELFPPVIGSHPDESGSKFQLKTIETLLGSTSKVGDVIVLGMITQLKEGKFFLEDPTGTVQLDLK  
 AQFHSGLYTEACFVLAEGCFEDQVFHANAFGFPPTPESSSTRAYYGNINFFGGPSNASVKASAKLRQLEE  
 ENKDAMFVIVSDVWLDQVQVLEKLHVMFSGYSPAPPTCFILCGNFSSAPYGNQVQALKDSLKSLADIIC  
 EYPSIHQSSRFVFPVGPEDPGFGSILPRPPLAESITQEFRQRVPFVFTTNPRIQYCTQEIIFREDLV  
 NKMCRCNCRFPSSSLDIPHFVKTVLVLSQGLAPLPLVYSPVYWAYDYTLRVYVPPDLLVIADKYDPFTVT  
 NTECLCINPGSFPRSGFAFKVFYPSKTVEDSKLQGF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_001169108

**ORF Size:** 1581 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\\_001169108.1](#), [NP\\_001162579.1](#)
**RefSeq Size:** 1696 bp

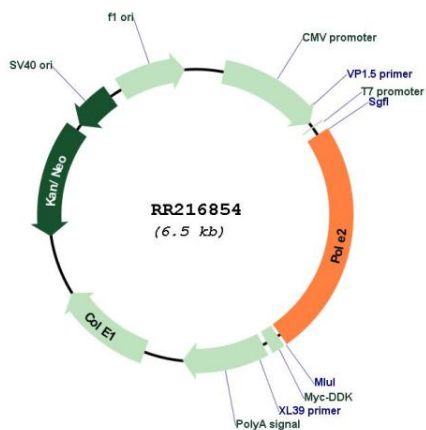
**RefSeq ORF:** 1584 bp

**Locus ID:** 299112

**Cytogenetics:** 6q24

MW: 59.2 kDa

Product images:



Circular map for RR216854