

Product datasheet for **RR202666**

Pole3 (NM_001007652) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pole3 (NM_001007652) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pole3
Synonyms: MGC94182; MGC94830
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202666 representing NM_001007652
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGAGGCCTGAGGACCTAAATCTGCCAACGCCGTCATTACCAGGATCATCAAGGAGGCGCTAC
CGGACGGTGTCAACATCTCCAAGGAGGCCCGAAGCGCCATCTCCGCGCGGCCAGTGTTCGTTTTGTA
TGCCACATCCTGTCCAATAACTTTGCAATGAAAGGAAAGCGCAAGACTCTCAATGCCAGTGATGTACTG
TCAGCCATGGAAGAGATGGAGTTCCAACGGTTCGTAACGCCATTGAAAGAAGCGCTAGAAGCATACAGGC
GGGAGCAGAAAGCAAGAAGGAAGCCTCAGAGCAAAAGAAGAAGGACAAAGACAAAAAGATTGCGAAGA
GCAGGACAAAAGCAGAGAGGAGGAGGATGAAGATGAAGAAAGACTGGATGAGGAAGAACAGAACGAAGAG
GAGGAGGTAGACAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202666 representing NM_001007652
Red=Cloning site Green=Tags(s)

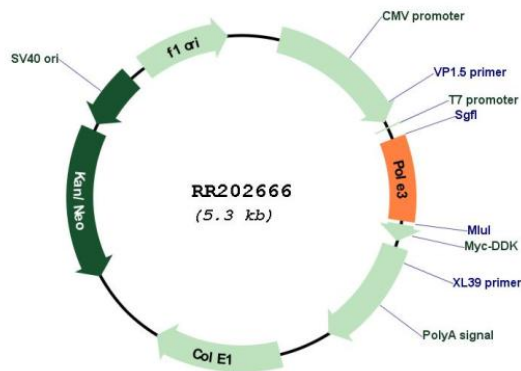
MAERPDLNLPNAVITRIIKEALPDGVNISKEARSASISRAASVFLYATSCANNFAMKGRKTLNASDVL
SAMEEMEFQRFVTPLEALEAYRREQKGGKEASEQKKKDKDKDCEEQDKSREEEDEDERLDEEQNEE
EEVDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001007652

ORF Size: 435 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:	<ol style="list-style-type: none">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:	<u>NM_001007652.2, NP_001007653.1</u>
RefSeq Size:	2625 bp
RefSeq ORF:	438 bp
Locus ID:	298098
UniProt ID:	<u>Q642A5</u>
Cytogenetics:	5q24
MW:	16.7 kDa
Gene Summary:	Forms a complex with DNA polymerase epsilon subunit CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1.[UniProtKB/Swiss-Prot Function]