

## Product datasheet for **RR215554**

### Os9 (NM\_001007265) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Os9 (NM_001007265) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Os9
Synonyms:	Os-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR215554 representing NM\_001007265  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCGGGAGGCGCTGCTGTCCAGTCTGTTGGGATTGCTATTTCTGGGGCTCCTGTTACCTGCGCATC  
TGACGGGCGGTGTCGGGAGCCTGAATTTGGAGGAGCTGAGTGAGATGCGTTATGGCATCCAGATCCTGCC  
GTTGCCTGTCATGGGAGGCGAGGCCAAGCTTCAGACGTGGTGGTGTGTCTTCAAAGTACAAAACAGCGC  
TATGAGTGCCGCCTACCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGGAGACACCTGCTTACC  
AGGGGCCCGGATTCTGAATTGTTGAGCCCAATGAGAGATGCCCTTGTCTGCTGAAGACCAAGGACTG  
GTGGACATATGAATTCTGTTATGGACGCCATATCCAGCAGTACCATATGGAAGACTCGGAGATCAAAGGT  
GACGTCCTCTACCTTGGCTACTACCAGTCAGCCTTCAACTGGGACGATGAAACAGCCAAGGCTCCAAGC  
AGCATCGGCTGAAACGCTACCACAGCCAGACCTACGGCAATGGTCCAAATGCGATCTCAATGGGAAGCC  
CAGAGAAGCTGAAGTTCCGTTCTGTGTGACGAGGGCGCGGCATATCTGGGACTACATCGATCGAGTA  
GATGAACCCTTCTCTGCTCCTACGTACTGAGCATTTCGGACATCGAGGCTCTGCCACACCTCTCCTCC  
GCCCACCAGCCAGCGCTGCCCCACAGGCTATTCTATGTCACCCAGCCCTGCAGCCTGACGAGTACATGGC  
CTACCTCCAGAGGCAAGCTGAGTCAAAGCAGCATGAAGAGAAAAGTACAGAGGAAGTTTCAGGACACAGAC  
CACCAAGTGTGGAGTGGGAGCAAGGCTGCCGGAGCACCCCAAAGAAAAGAAGATGTGAGCCCCACCAAGG  
AAGATAAGGAATCAGAGTTTTGGAAAATGCTTCAGGAGCCAGAGGAGCAGGCTACAGGAACAGAGGAAGC  
ACAGGCAGGGGAACAGGACCTGAACCATGAGGCTGCAGCAGACCCAGCTCCAGCCCCTCCACTGATTTT  
CAGAATAATGTGACGGTCAAACCTATCCGGAGTCTGCAGATTTGATTGATTGATCGAGGAGCTAAAAG  
GTGCAGAAAAGGGGAAGCCAAGCGTAAGGCAGGAGCAGCCTGGAGATGATACCACAGAGGCCCCCGCAGAG  
GGAAGCGGAGGCGAAGGAAAGGGTGGTGAACCCCGGGTCTCGTGGAAGAAGAGGATGGTGACGAGGAG  
GAGGAGGACGAGGACGAGGATGAGCAGCAGCTCCTGGGAGAGTTCGAGAAGGAGTTGGAGGGGATGCTGC  
TGCCCTCGGACCGAGAGCGCTGCGCTCAGAGGTTAAGGCTGGCATGGAGCGCGAGCTGGAAAACATCAT  
CCAGGAGACAGAGAAGGAACTGGACCCAGAAGGGCTGAGGAAGGAGTCTGAGCGGGAGCAGGCAATATTG  
GCTCTGACATCCACTCTGGACAACTCATCAAGAGGCTGCAGGAGAGCCAGAGTCCAGAGCTTGTCCAGA  
AATACAAGAAAAGGAGAGTTGTCCCTCAAAGCCTCCCCATCACCGCACCTACAGAGGAGGAGCCTGA  
GCACAGAGTCCGGTCCGAGTACCAAGCTCCGTATGGAGGCCCAATCAGGACCTGACTGTCTGGAG  
ATGAACCGGGAAAACCCACAGCTGAAACAGATCGAGGGGCTGGTGACAGAAGTCTGGAGAGGGAGGGGC  
TCACGGCGGAAGCAAGATTGAGATCAAAATTGTGCGACCCGGGGCTGAAGGTAAGGAGGAGGACACAG  
CTGGCTGACTGATGAGGACACAAGAAACCTTAAGGAGATTTTCTCAATATCTTGGTGCAGGGAGCAGAA  
GAGGCCAATAAGAACCGCAGCGACAGAGTGGAGCAATTACCGCCGTGTATGGGGCTCTCCGG  
GTGGAGAGGATACAGGGGACCTGGATGAGTTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215554 representing NM\_001007265  
Red=Cloning site Green=Tags(s)

MAAEALLSSLLGLLFLGLLLPAHLTGGVGSLNLEELSEMRYGIQILPLPVMGGQSASDVVVVSSKYKQR  
 YECRLPAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLTKDWWTYEFQYGRHIQQYHMEDESEIKG  
 DVLYLGYYSQAFNWDDDETAKASKQHRLKRYHSQTYGNGSKCDLNGKPREAEVRFLCDGAGISGDYIDRV  
 DEPFSCSYVLSIRTSRLCPHLLRPPASAAPQAILCHPALQPDEYMYLQRQAESKQHEEKVTEEVQDTE  
 HQVWSGSKAAGAPPKKEDVSPTKEDKESEFWKMLQEPEEQATGTEEAQAGEQDLNHEAAAADPAPAPPTDF  
 QNNVQVKLIRSPADLIRLIEELKGAEKGKPSVRQEQPGDDTTEAPQREAEAKGKGGEPRGLVEEEDGDEE  
 EEDEDEDEQQLLGEFEKELEGMLLPDRERLRSEVKAGMERELENIIQETEKELDPEGLRKESEREQAIL  
 ALTSTLDKLIKRLQESQSPQLVQYKRRVVPQKPPSPHPTEEEEPEHRVVRVTKLRHGGPNQDLTVLE  
 MNRENPLKQIEGLVTEVLERGLTAEGKIEIKIVRPGAEGKEEDTRWLTDEDTRNLKEIFFNILVQGAE  
 EANKERQRQSELESNYRRVWVWSPGGEDTGDLDEFDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001007265

**ORF Size:** 1998 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\\_001007265.1](#), [NP\\_001007266.1](#)

**RefSeq Size:** 2639 bp

**RefSeq ORF:** 2001 bp

**Locus ID:** 362891

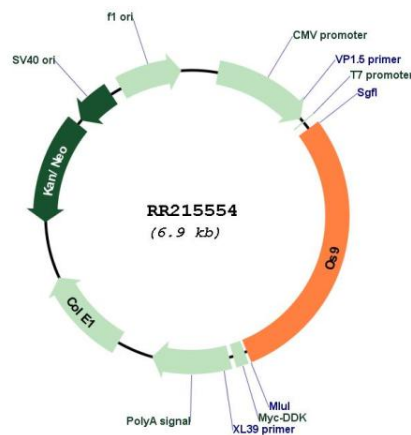
**UniProt ID:** [Q5RKH6](#)

**Cytogenetics:** 7q22

**MW:** 75.4 kDa

**Gene Summary:** Lectin which functions in endoplasmic reticulum (ER) quality control and ER-associated degradation (ERAD). May bind terminally misfolded non-glycosylated proteins as well as improperly folded glycoproteins, retain them in the ER, and possibly transfer them to the ubiquitination machinery and promote their degradation. Possible targets include TRPV4 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR215554