

Product datasheet for **MR209456**

Os9 (NM_177614) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Os9 (NM_177614) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Os9
Synonyms:	4632413K17Rik; AU022351
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR209456 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGAGGTGCTGCTGTCCAGTCTGTTGGGATTGCTATTTCTAGGGCTCCTGTTACCTGCGCGTC
 TGACGGGCGGTGTGGGAGCCTGAATTTGGAGGAGCTGAGTGAGATGCGTTATGGCATCCAGATCTTGCC
 GTTGCCCTGTCATGGGAGGCAGAGCCAAGCTTCAGACGTGGTGGTGTGTCTTCAAAGTACAAAACAGCGC
 TATGAGTGCCGCCTACCAGCTGGAGCTATTCACTTCCAACGTGAAAGAGAGGAGGAGACGCTGCTTACC
 AGGGGCCCGGGATCCCTGAATTGTTGAGCCAATGAGAGATGCCCTTGTGGTGAAGACCAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGTCATATCCAGCAGTACCATATGGAAGACTCGGAGATCAAAGGT
 GACGTCCTCTATCTTGGCCACTACCAGTCTCCTTCAACTGGGACGACGAAACAGCCAAGGCTTCCAAGC
 AGCATCGGCTGAAACGCTACCACAGCCAGACCTACGGCAACGGGTCCAAATGTGATCTCAACGGGAAGCC
 CCGAGAAGCTGAAGTTCGGTTCCTGTGTGACGAGGGTGCGGGCATATCTGGGACTACATTGACCGAGTA
 GATGAACCCGTCCTGCTCCTACGTAAGTACTGACCATTCGCACGTCAAGGCTCTGCCCGCATCTCTCTCC
 GGCCACCAGCCAGCGCTGCCCCACAGGCCATTCTTTGTCACCCAGCCCTGCAGCCTGATGAGTACATGGC
 CTACCTCCAGAGGCAAGCTGAGTCAAAGCAGCATGAAGAGAAAACACAGAGGAAGTCCAGGACACAGAC
 CGCCAAGTGTGGAGTGGGAGCAAGGCTGCCGGAGCACCCCAAAGAAAAGAAGATGTCAGCCAGCCAAGG
 AAGAGAAGGAATCAGAGCTCTGGAAGCTTCAGGGGCCAGAGGAGCAGGCAGCAGCAAGAGAGGAGGCGCA
 GGCAGGGGAACAGGACCTGAACACAGAGCCGACGAGATCCAGCTCCAAGCCCTCCCAATGATTTTCAG
 AATAACGTGCAGGTGAACTCATCCGGAGTCCCGCAGACTTGATTGACTGATTGAGGAGCTGAAAGCTG
 CAGAAAAGGGGAAGCCAAGCGTAAGGCGGGAGCAGCCTGGAGACGATACCACGGAGGCCCCAGAGGGA
 AGCAGAGGGAACGAAGGCGAAGGAAAGGGTGGTGGAGCCCGGGTCTTATGGAAGAGGAGGATGGTGAC
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 AGCTGGAGGGGATGTTGCTGCCCTCAGACCAGCAGCGCCTCCGCTCTGAGGTTAAGGCTGGCATGGAGCG
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 CGGGAGCAGGCAATATTGGCTCTAACATCCACTCTGGACAACTCATCAAGAGGCTGCAGGAGAACCAGA
 GTCCAGAGCTTGTCAAAAATACAAAAAAGGAGAGTTGTCCCCAAAAGCCTCCCCATCACCACACC
 TACAGGCAAGATTGAGATCAAGATTGTGCGACCCGGGGCTGAAGGTAAGGAAGAGGACACACGCTGGCTG
 ACTGATGAGGATACAAGAAACCTTAAGGAGATTTCTTCAATATCTTGGTACAGGGAGCCGAAGAGGCCA
 ATAAAGAACGCCAGCAGACAGAGTGAGCTGGAGAGCAACTACCGCCGGGTGTGGGGCTCTCCCGGTGTGA
 AGACACGGGGGACCTGGATGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

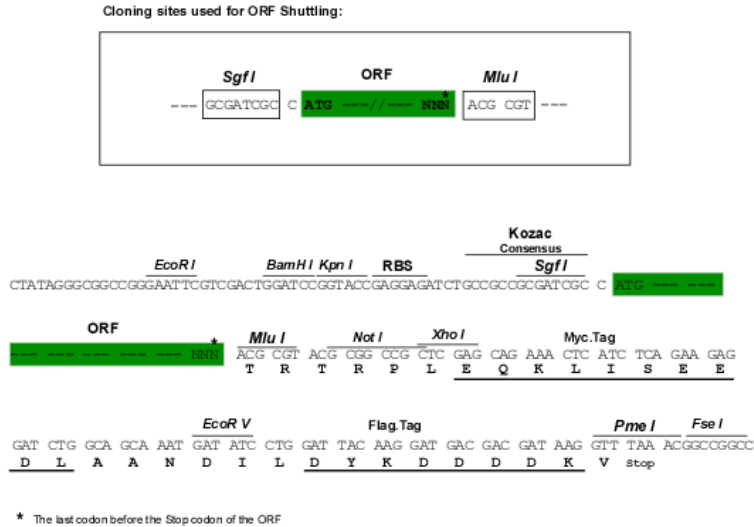
>MR209456 protein sequence
 Red=Cloning site Green=Tags(s)

MAAEVLLSSLLGLLFLGLLLPARLTGGVGLNLEELSEMRVGIQILPLPVMGGQSASDVVVVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDKWWTYEFYGRHIQQYHMEDESEIKG
 DVLVYLGHYQSSFNWDEETAKASKQHRLKRYHSQTYNGSKCDLNGKPREAEVRFLLCDEGAGISGDYIDRV
 DEPVSCSYVLTIRTSRLCPHLLRPPASAAPQAILCHPALQPDEYMYLQRQAESQHEEKTTTEEVQDTE
 RQVWVSGSKAAGAPPKKEDVSPAKEEKESELWKLQGPPEQAAAREEAQAGEQDLNHEAADPAPSPPNDFQ
 NNVQVKLIRSPADLIRLIEELKAAEKGKPSVRREQPGDDTTEAPQREAGTKAKGKGEPPLMEEEDGD
 DEEEEEEEEEDEEEQQLLGEFEKELEGMLLPSDRERLRSEVKAGMERELENIQETEKELDPEGLRKESE
 REQAIALALTSTLDKLIKRLQENQSPELVQYKRRVVPQPPSPHPTGKIEIKIVRPGAEGKEEDTRWL
 TDEDTRNLKEIFFNILVQGAEEANKERQRQSELESNYRRVWVWSPGGEDTGDLEDFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177614

ORF Size: 1854 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_177614.2](#), [NP_808282.1](#)

RefSeq Size: 3884 bp

RefSeq ORF: 1854 bp

Locus ID: 216440

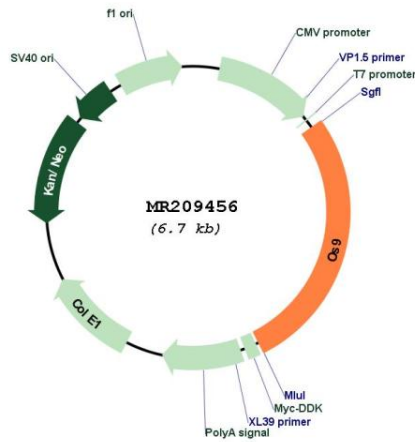
UniProt ID: [Q8K2C7](#)

Cytogenetics: 10 D3

MW: 69.7 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 MR209456