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Product datasheet for MR218483

Os9 (NM_001171026) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Os9 (NM_001171026) 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:

>MR218483 representing NM_001171026
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGAGGTGCTGCTGTCCAGTCTGTTGGGATTGCTATTTCTAGGGCTCCTGTTACCTGCGCGTC
TGACGGGCGGTGTCGGGAGCCTGAATTTGGAGGAGCTGAGTGAGATGCGTTATGGCATCCAGATCTTGCC
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GACGTCCTCTATCTTGGCCACTACCAGTCCTCCTTCAACTGGGACGACGAAACAGCCAAGGCTTCCAAGC
AGCATCGGCTGAAACGCTACCACAGCCAGACCTACGGCAACGGGTCCAAATGTGATCTCAACGGGAAGCC
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GGCCACCAGCCAGCGCTGCCCCACAGGCCATTCTTTGTCACCCAGCCCTGCAGCCTGATGAGTACATGGC
CTACCTCCAGAGGCAAGCTGAGTCAAAGCAGCATGAAGAGAAAACCACAGAGGAAGTCCAGGACACAGAC
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GGCAGGGGAACAGGACCTGAACCACGAGGCCGCAGCAGATCCAGCTCCAAGCCCTCCCAATGATTTTCAG
AATAACGTGCAGGTGAAACTCATCCGGAGTCCCGCAGACTTGATTCGACTGATTGAGGAGCTGAAAGCTG
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TGCTGGAGAGGGAGGGGCTCACGGCGGAAGGCAAGATTGAGATCAAGATTGTGCGACCCGGGGCTGAAGG
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TTGGTACAGGGAGCCGAAGAGGCCAATAAAGAGCGCCAGCGACAGAGTGAGCTGGAGAGCAACTACCGCC
GGGTGTGGGGCTCTCCCGGTGGTGAAGACACGGGGGACCTGGATGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR218483 representing NM_001171026
Red=Cloning site Green=Tags(s)

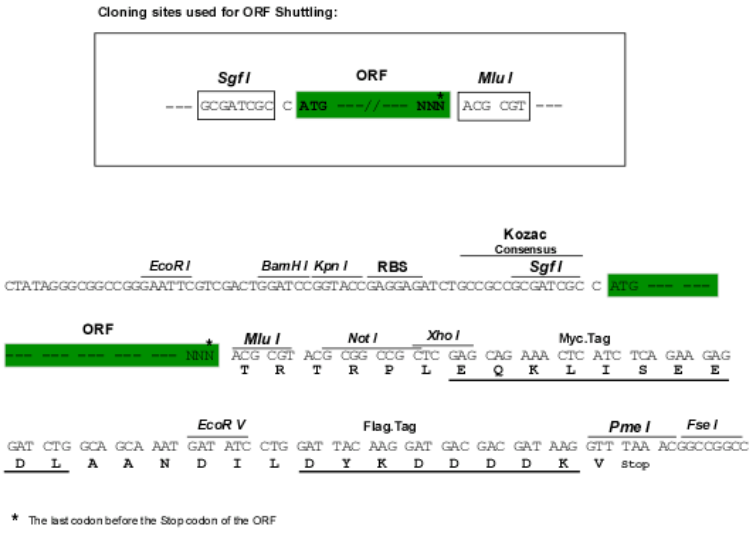
MAAEVLLSSLLGLLFLGLLLPARLTGGVGSLNLEELSEMRYGIQILPLPVMGGQSQASDVVVVSSKYKQR
YECRLPAGAIHFQREREEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG
DVLYLGHYQSSFNWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGKPREAEVRFLCDEGAGISGDYIDRV
DEPVSCSYVLTIRTSRLCPHPLLRPPASAAPQAILCHPALQPDEYMAYLQRQAESKQHEEKTTEEVQDTD
RQVWSGSKAAGAPPKKEDVSPAKEEKESELWKLQGPEEQAAAREEAQAGEQDLNHEAAADPAPSPPNDFQ
NNVQVKLIRSPADLIRLIEELKAAEKGKPSVRREQPGDDTTEAPQREAEGTKAKGKDGEPPGLMEEEDGD
DEEEEEEEEEDEEEQQLLGEFEKELEGMLLPSNRERLRSEVKAGMERELENIIQETEKELDPEGLRKESE
REQAILALTSTLDKLIKRLQENQSPELVQKYKKRRVVPQKPPPSPHPTEEEPEHRVRVRVTKLRPGGPNR
DLTVLEMNRENPQLKQIEGLVTEVLEREGLTAEGKIEIKIVRPGAEGKEEDTRWLTDEDTRNLKEIFFNI
LVQGAEEANKERQRQSELESNYRRVWGSPGGEDTGDLDEFDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001171026

ORF Size: 2016 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_001171026.1, NP_001164497.1

RefSeq Size: 4049 bp

RefSeq ORF: 2019 bp

Locus ID: 216440

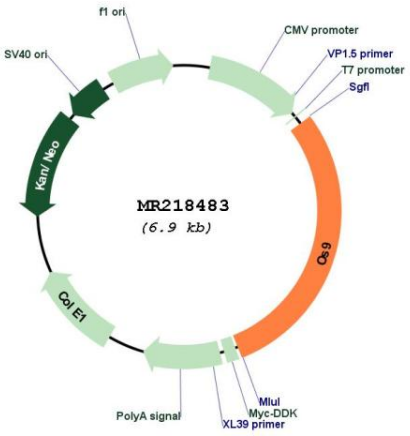
UniProt ID: Q8K2C7

Cytogenetics: 10 D3

MW: 76.6 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 MR218483