

## Product datasheet for **MG218483**

### Os9 (NM\_001171026) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Os9 (NM_001171026) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Os9
Synonyms:	4632413K17Rik; AU022351
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218483 representing NM\_001171026  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGGGAGGTGCTGCTGTCCAGTCTGTTGGGATTGCTATTTCTAGGGCTCCTGTTACCTGCGCGTC  
 TGACGGGCGGTGTCGGGAGCCTGAATTTGGAGGAGCTGAGTGAGATGCGTTATGGCATCCAGATCTTGCC  
 GTTGCCTGTCATGGGAGGCAGAGCCAAGCTTCAGACGTGGTGGTGTGTCTTCAAAGTACAAACAGCGC  
 TATGAGTGCCGCCTACCAGCTGGAGCTATTCACTTCCAACGTGAAAGAGAGGAGGAGACGCTGCTTACC  
 AGGGGCCCGGGATCCCTGAATTGTTGAGCCAATGAGAGATGCCCTTGTGTTGCTGAAGACCAAGGACTG  
 GTGGACATATGAATTCTGTTATGGACGTCATATCCAGCAGTACCATATGGAAGACTCGGAGATCAAAGGT  
 GACGTCCTCTATCTTGGCCACTACCAGTCTCCTTCAACTGGGACGACGAAACAGCCAAGGCTTCCAAGC  
 AGCATCGGCTGAAACGCTACCACAGCCAGACCTACGGCAACGGGTCCAAATGTGATCTCAACGGGAAGCC  
 CCGAGAAGCTGAAGTTCCGGTTCCTGTGTGACGAGGGTGCGGGCATATCTGGGACTACATTGACCGAGTA  
 GATGAACCCGTCCTCTGCTCCTACGTAAGTACGACATTTCGACGTCGCAAGGCTCTGCCCGCATCTCTCTCC  
 GGCCACCAGCCAGCGCTGCCCCACAGGCCATTCTTTGTCACCCAGCCCTGCAGCCTGATGAGTACATGGC  
 CTACCTCCAGAGGCAAGCTGAGTCAAAGCAGCATGAAGAGAAAACCACAGAGGAAGTCCAGGACACAGAC  
 CGCAAGTGTGGAGTGGGAGCAAGGCTGCCGGAGCACCCCAAAGAAAGAAGATGTCAGCCAGCCAAGG  
 AAGAGAAGGAATCAGAGCTCTGGAAGCTTCAGGGGCCAGAGGAGCAGGCAGCAGCAAGAGAGGAGGCGCA  
 GGCAGGGGAACAGGACCTGAACACGAGGCCGACGAGATCCAGCTCCAAGCCCTCCCAATGATTTTCAG  
 AATAACGTGCAGGTGAAACTCATCCGGAGTCCCGCAGACTTGATTGACTGATTGAGGAGCTGAAAGCTG  
 CAGAAAAGGGGAAGCCAAGCGTAAGGCGGGAGCAGCCTGGAGACGATACCACGGAGGCCCCAGAGGGGA  
 AGCAGAGGGAACGAAGGCGAAGGAAAGGATGGTGAGCCCCGGTCTTATGGAAGAGGAGGATGGTGAC  
 GACGAAGAGGAGGAGGAGGAGGAGGAAAGGACGAGGAGGAGCAGCAGCTCCTGGGAGAGTTCGAGAAGG  
 AGCTGGAGGGATGTTGCTGCCCTCAAACCGCAGCGCCTCCGCTCTGAGGTTAAGGCTGGCATGGAGCG  
 GGAGCTGGAGAACATCATCCAGGAGACAGAGAAGGAACTGGACCCAGAAGGGCTGAGGAAGGAGTCCGAG  
 CGGGAGCAGGCAATATTGGCTTAACATCCACTCTGGACAACTCATCAAGAGGCTGCAGGAGAACCAGA  
 GTCAGAGCTTGTGCAAAAATACAAAAAAGGAGAGTTGTCCCCAAAAGCCTCCCCATCACCACACCC  
 TACAGAGGAGAACCTGAGCACAGAGTCCGGTCCGAGTACCAAGCTCCGTCTGGAGGCCCAATCGG  
 GACCTGACTGTCTGGAGATGAACCGGAAAACCCACAGCTGAAACAGATCGAGGGGCTGGTGACAGAAG  
 TGCTGGAGAGGGAGGGGCTCACGGCGGAAGGCAAGATTGAGATCAAGATTGTGCGACCCGGGGCTGAAGG  
 TAAGGAAGAGGACACACGCTGGCTGACTGATGAGGATACAAGAAACCTTAAGGAGATTTTCTTCAATATC  
 TTGGTACAGGGAGCCGAAGAGGCAATAAAGAGCGCCAGCAGCAGAGTGAGCTGGAGAGCAACTACCGCC  
 GGGTGTGGGGCTCTCCGGTGGTGAAGACACGGGGACCTGGATGAATTTGACTTC

**ACCGGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218483 representing NM\_001171026  
 Red=Cloning site Green=Tags(s)

MAAEVLLSLLGLLFLGLLLPARLTGGVGSLNLEELSEMRYGIQILPLPVMGGQSQASDVVVVSSKYKQR  
 YECRLPAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLTKDWWTYEFYGRHIQQYHMEDESEIKG  
 DVLVYLGHYQSSFNWDDETAKASKQHRLKRYHSQTYNGSKCDLNGKPREAEVRFKDEGAGISGDYIDRV  
 DEPVSCSYVLTIRTSRLCPHLLRPPASAAPQAILCHPALQPDEY MAYLQRQAESKQHEEKTTTEEVQDTD  
 RQVWSGSKAAGAPPKKEDVSPAKEEKESELWKLQGP EEGAAAREEAQAGEQDLNHEAAADPAPSPPNDFQ  
 NNVQVKLIRSPADLIRLIEELKAAEKGKPSVRREQPGDDTTEAPQREAEGTKAKGKDGEPPGLMEEDGD  
 DEEEEEEEEEDEEEQQLLGEFEKELEGMLLPSNRERLRSEVKAGMERELENI IQE TEKELDPEGLRKESE  
 REQAILALTSTLDKLIKRLQENQSPELVQYKRRRVVPQPPPSPHPT EEEPEHRVVRVTKLRPGGPNR  
 DLTVLEMNRENPLKQIEGLVTEVLEREGLTAEKIEIKIVRPGAEGKEEDTRWLTDEDTRNLKEIFFNI  
 LVQGAEEANKERQRQSELESNYRRVWVWSPGGEDTGDLDEFDF

TRTRPLE - GFP Tag - V

Restriction Sites:

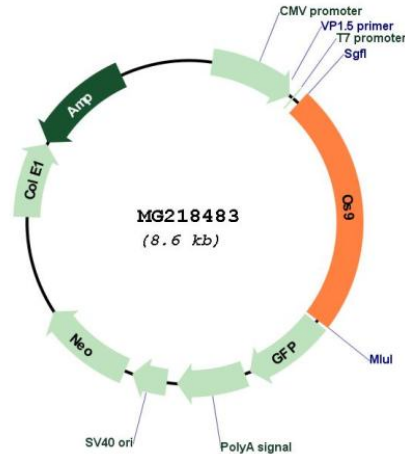
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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

**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]