

Product datasheet for **MG209456**

Os9 (NM_177614) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Os9 (NM_177614) 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:

>MG209456 representing NM_177614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGAGGTGCTGCTGTCCAGTCTGTTGGGATTGCTATTTCTAGGGCTCCTGTTACCTGCGCGTC
 TGACGGGCGGTGTGGGAGCCTGAATTTGGAGGAGCTGAGTGAGATGCGTTATGGCATCCAGATCTTGCC
 GTTGCCTGTCATGGGAGGCAGAGCCAAGCTTCAGACGTGGTGGTGTGTCTTCAAAGTACAAAACAGCGC
 TATGAGTGCCGCCTACCAGCTGGAGCTATTCACTTCCAACGTGAAAGAGAGGAGGAGACGCTGCTTACC
 AGGGGCCCGGGATCCCTGAATTGTTGAGCCCAATGAGAGATGCCCTTGTGGTGAAGACCAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGTCATATCCAGCAGTACCATATGGAAGACTCGGAGATCAAAGGT
 GACGTCCTCTATCTTGGCCACTACCAGTCTCCTTCAACTGGGACGACGAAACAGCCAAGGCTTCCAAGC
 AGCATCGGCTGAAACGCTACCACAGCCAGACCTACGGCAACGGGTCCAAATGTGATCTCAACGGGAAGCC
 CCGAGAAGCTGAAGTTCGGTTCCTGTGTGACGAGGGTGCGGGCATATCTGGGACTACATTGACCGAGTA
 GATGAACCCGCTCCTGCTCCTACGTAAGTACGACATTTCGCACGTCAAGGCTCTGCCCGCATCTCTCTCC
 GGCCACCAGCCAGCGCTGCCCCACAGGCCATTCTTTGTCACCCAGCCCTGCAGCCTGATGAGTACATGGC
 CTACCTCCAGAGGCAAGCTGAGTCAAAGCAGCATGAAGAGAAAACACAGAGGAAGTCCAGGACACAGAC
 CGCCAAGTGTGGAGTGGGAGCAAGGCTGCCGGAGCACCCCAAAGAAAGAAGATGTCAGCCAGCCAAGG
 AAGAGAAGGAATCAGAGCTCTGGAAGCTTCAGGGGCCAGAGGAGCAGGCAGCAGCAAGAGAGGAGGCGCA
 GGCAGGGGAACAGGACCTGAACACAGAGCCGACGAGATCCAGCTCCAAGCCCTCCCAATGATTTTCAG
 AATAACGTGCAGGTGAACTCATCCGGAGTCCCGCAGACTTATTGACTGATTGAGGAGCTGAAAGCTG
 CAGAAAAGGGGAAGCCAAGCGTAAGGCGGGAGCAGCCTGGAGACGATACCACGGAGGCCCCAGAGGGA
 AGCAGAGGGAACGAAGGCGAAGGAAAGGGTGGTGGAGCCCGGGTCTTATGGAAGAGGAGGATGGTGAC
 GACGAAGAGGAGGAGGAGGAGGAGGAAGAGGACGAGGAGGAGCAGCAGCTCCTGGGAGAGTTCGAGAAGG
 AGCTGGAGGGGATGTTGCTGCCCTCAGACCCGAGCGCCTCCGCTCTGAGGTTAAGGCTGGCATGGAGCG
 GGAGCTGGAGAACATCATCCAGGAGACAGAGAAGGAACTGGACCCAGAAGGGCTGAGGAAGGAGTCCGAG
 CGGGAGCAGGCAATATTGGCTCTAACATCCACTCTGGACAACTCATCAAGAGGCTGCAGGAGAACCAGA
 GTCCAGAGCTTGTCAAAAATACAAAAAAGGAGAGTTGTCCCCAAAAGCCTCCCCATCACCACACC
 TACAGGCAAGATTGAGATCAAGATTGTGCGACCCGGGGCTGAAGGTAAGGAAGAGGACACACGCTGGCTG
 ACTGATGAGGATACAAGAAACCTTAAGGAGATTTCTTCAATATCTTGGTACAGGGAGCCGAAGAGGCCA
 ATAAAGAACGCCAGCAGAGAGTGGAGAGCAACTACCGCCGGGTGTGGGGCTCTCCCGGTGGTGA
 AGACACGGGGACCTGGATGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209456 representing NM_177614
 Red=Cloning site Green=Tags(s)

MAAEVLLSSLLGLLFLGLLLPARLTGGVGLNLEELSEMRYGIQILPLPVMGGQSASDVVVVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPIPELLSPMRDAPCLLKTGDWWTYEFYGRHIQQYHMESEIKG
 DVLYLGHYQSSFNWDDETAKASKQHRLKRYHSQTYNGSKCDLNGKPREAEVRFLLCDEGAGISGDYIDRV
 DEPVSCSYVLTIRTSRLCPHLLRPPASAAPQAILCHPALQPDEY MAYLQRQAESKQHEEKTTEEVDQTD
 RQVWSGSKAAGAPPKKEDVSPAKEEKESLWKLQGPPEQAAAREEAQAGEQDLNHEAAADPAPSPPNDFQ
 NNVQVKLIRSPADLIRLIEELKAAEKGKPSVRREQPGDDTTEAPQREAEGTKAKGKGEPPLMEEEDGD
 DEEEEEEEEEDEEEQQLLGEFEKELEGMLLPSDRERLRSEVKAGMERLENI IQETEKELDPEGLRKESE
 REQAIALALTSTLDKLIKRLQENQSPQLVQYKRRVVPQKPPSPHPTGKIEIKIVRPGAEGKEEDTRWL
 TDIEDTRNLKEIFFNILVQGAEEANKERQRQSELESNYRRVWVWSPGGEDTGDLEDFD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_177614.2 , NP_808282.1
RefSeq Size:	3884 bp
RefSeq ORF:	1854 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]