

Product datasheet for **RG234568**

OS9 (NM_001261420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001261420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OS9
Synonyms:	ERLEC2; OS-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234568 representing NM_001261420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTCGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC
 AGCATCGTCTAAACGCTACCACAGCCAGACCTATGGCAATGGTCCAAGTGCACCTTAATGGGAGGCC
 CCGGGAGGCCGAGTTCCGTTCTCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG
 GACGAGCCCTTGTCTGCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCTCTCC
 GGCCCCACCCAGTGTGCACCGCAGGCCATCCTCTGTCACCCCTCCCTACAGCCTGAGGAGTACATGGC
 CTACGTTGAGGCAAGCCGTAGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTA
 GGCCCCAAGTGTGGAGTGAGACCAAGTCTGGGTGGCACCCCAAAGATGGCAGGTGCGAGCCCGACCA
 AGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGA
 GGAGGTGCCGGCTGAGGAGCAGGACCAAGCCCTGAGGCAGCAGATTAGCTTCTGGTCTCCAATGAT
 TTTCAGAACACGTGCAGGTCAAAGTCATTGCAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGA
 AAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCC
 TCAGAGGAACCCAGAGAAGGAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAG
 GATGAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGAAGGGA
 TCCTGCTTCCGTGAGCCGAGACCGGCTCCGTTCCGAGGTGAAGGCTGGCATGGAGCGGGAAGTGGAAAA
 CATCATCCAGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTACAGAGCGGGATCGGGCA
 ATGCTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGG
 TGAAGAAGCACAGAAAAAGAGGTTGTCCCAAAAAGCCTCCCCATCACCCCAACCTACAGGGAAAAAT
 TGAGATCAAAATGTCCGCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGAC
 ACGAGAAACCTCAAGGAGATCTTCTTCAATATCTTGGTCCGGGAGCTGAAGAGGCCAGAGGAACGCC
 AGCGGCAGAAAGAGCTGGAGAGCAATACCGCCGGGTGTGGGCTCTCCAGGTGGGAGGGCACAGGGGA
 CCTGGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234568 representing NM_001261420
 Red=Cloning site Green=Tags(s)

MAAETLLSSLLGLLLLLGLLLPASLTGGVGLNLEELSEMYGIEILPLPVMGGQSQSSDVVIVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDWWTYEFYGRHIQQYHMESEIKG
 EVLYLGYYSQAFDWDDETAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFLLCDEGAGISGDYIDRV
 DEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYQRQAVDSKQYGDKIIIEELQDL
 GPQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSEAAADSASGAPND
 FQNNVQVKVIRSPADLIRFIEELKGGTKKGPNIHQEQPVDDAAEVPQREPEKERGDPERQREMEEEDE
 DEDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERLENI IQETEKELDPDGLKKESERDRA
 MLALTSTLNKLIKRLKQSPKELVKKHKKRVVPPKPPSPQPTGKIEIKIVRPWAEGETEERWLTDED
 TRNLKEIFFNILVPGAEAAQKERQRQKELESNYRRVWVWSPGGEGTGDLEDFDF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001261420

ORF Size: 1839 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_001261420.1](#), [NP_001248349.1](#)

RefSeq Size: 2733 bp

RefSeq ORF: 1842 bp

Locus ID: 10956

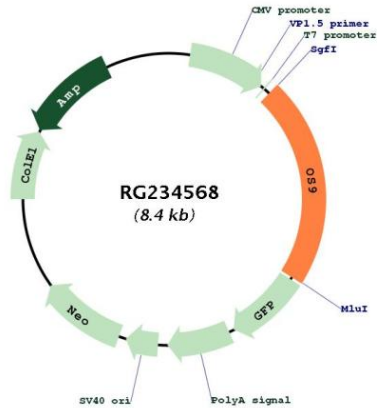
UniProt ID: [Q13438](#)

Cytogenetics: 12q13.3-q14.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein that is highly expressed in osteosarcomas. This protein binds to the hypoxia-inducible factor 1 (HIF-1), a key regulator of the hypoxic response and angiogenesis, and promotes the degradation of one of its subunits. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG234568