

## Product datasheet for **RG234433**

### OS9 (NM\_001261422) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001261422) 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:**

>RG234433 representing NM\_001261422  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC  
 TGACCGCGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC  
 GTTGCCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC  
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACCTGCTTACC  
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG  
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT  
 GAATTCCTCTGTGACGAGGGTGCAGGTATCTCTGGGGACTACATCGATCGCGTGGACGAGCCCTTGTCT  
 GCTCTTATGTGCTGACCATTCGACTCCTCGGCTCTGCCCCACCCTCTCCTCCGGCCCCACCCAGTGC  
 TGCACCGCAGGCCATCCTGTGACCCTCCCTACAGCCTGAGGAGTACATGGCCTACGTTAGAGGCAA  
 GCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGCCCCAAGTGTGGAGTG  
 AGACCAAGTCTGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCGACCAAGGATGACAGTAAGGACTC  
 AGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGAGGTGCCGGCTGAGGAG  
 CAGGACCAAGCCCTGAGGCAGCAGATTAGCTTCTGGTCTCCCAATGATTTTCAGAACAACGTGCAGG  
 TCAAAGTCATTCGAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGAAAGGTGGAACAAAAAGGG  
 GAAGCCAAATATAGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCAGAGGGAACCAGAGAAG  
 GAAAGGGTATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGATGAGGATGAAG  
 ATGAGGATGAACGCAGTTACTGGGAGAATTTGAGAAGGAATGGAAGGGATCCTGCTCCGTGAGACCG  
 AGACCGGCTCCGTTCCGAGGTGAAGGCTGGCATGGAGCGGGAACGGAAAACATCATCCAGGAGACAGAG  
 AAAGAGCTGGACCAGATGGGCTGAAGAAGGAGTCAAGCGGGATCGGGCAATGCTGGCTCTCACATCCA  
 CTCTCAACAAACTCATAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAA  
 GAGGGTTGTCCCCAAAAGCCTCCCCATACCCCAACCTACAGGGAAAAATTGAGATCAAATTTGCCGC  
 CCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAAAACCTCAAGGAGA  
 TCTTCTTCAATATCTTGGTGCCGGGAGCTGAAGAGGCCCAGAAGGAACGCCAGCGGCAGAAAGAGCTGGA  
 GAGCAATTACCGCCGGGTGTGGGCTCTCCAGTGGGGAGGCACAGGGACCTGGACGAATTTGACTTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234433 representing NM\_001261422  
 Red=Cloning site Green=Tags(s)

MAAETLLSLLGLLLLLGLLPLASLTGGVGSNLNLEELSEMYGIEILPLPVMGGQSQSSDVVIVSSKYKQR  
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKTDWWTYEF CYGRHIQQYHMESEIKG  
 EFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYQRQ  
 ADSKQYDKIIIEELQDLGPQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEE  
 QDPSPEAADSASGAPNDFQNNVQVKVIRSPADLIRFIEELKGGTKKPKNIHQEQPVDDAAEVPQREPEK  
 ERGDPERQREMEEEDEDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERELENIIQETE  
 KELDPDGLKKESEDRAMLALSTLNKLIKRLKQSPKLVKHKHKKRVVPKPPSPQPTGKIEIKIVR  
 PWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELESNYRRVWVWSPGGEGTDLDEFDF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001261422

**ORF Size:** 1680 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\\_001261422.1](#), [NP\\_001248351.1](#)

**RefSeq Size:** 2574 bp

**RefSeq ORF:** 1683 bp

**Locus ID:** 10956

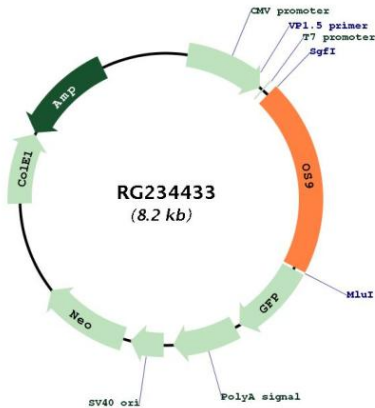
**UniProt ID:** [Q13438](#)

**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 RG234433