

Product datasheet for **RG218206**

OS9 (NM_006812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_006812) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG218206 representing NM_006812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTCGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCTGTCATGGGAGGCGAGAGCCAATCTTCGGACGTGGTGATTGTCTCCTCTAAGTACAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGCTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTCAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC
 AGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGCAATGGGTCGAAGTGCACCTTAATGGGAGGCC
 CCGGGAGGCCGAGGTTCCGTTCCCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG
 GACGAGCCCTTGTCTGCTCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCCTCC
 GGCCCCACCCAGTGCTGCACCGCAGGCCATCCTCTGTCAACCCTCCCTACAGCTGAGGAGTACATGGC
 CTACGTTTACAGAGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGC
 CCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCCGACCAAGG
 ATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGA
 GGTGCCGCTGAGGAGCAGGACCAAGCCCTGAGGCAGCAGATTCAGCTTCTGGTCTCCAATGATTTT
 CAGAACAACGTGCAGGTCAAAGTCATTCGAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGAAAG
 GTGGAACAAAAAGGGGAAGCCAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA
 GAGGGAACCCAGAGAAGGAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGAT
 GAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAACTGGAAGGGATCC
 TGCTTCCGTCAGACCGAGACCGGCTCCGTTTCGGAGGTGAAGGCTGGCATGGAGCGGGAACCTGAAAAACAT
 CATCCAGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATG
 CTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGA
 AGAAGCACAAAGAAAAAGAGGGTTGTCCCCAAAAGCCTCCCCATCACCCCAACCTACAGAGGAGGATCC
 TGAGCACAGAGTCCGGTCCGGTCCCAAGCTCCGTCTCGGAGGCCCTAATCAGGATCTGACTGTCCTC
 GAGATGAAACGGGAAAACCCACAGCTGAAACAAATCGAGGGGCTGGTGAAGGAGCTGCTGGAGAGGGAGG
 GACTCACAGCTGCAGGAAAATTGAGATCAAATTTGTCGCCCATGGGCTGAAGGACTGAAGAGGGTGC
 ACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTTCTCAATATCTTGGTCCCGGGAGCT
 GAAGAGGCCCAGAAGGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGGCTCTC
 CAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGACTTC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218206 representing NM_006812
Red=Cloning site Green=Tags(s)

```

MAAETLLSLLGLLLLLGLLLPASLTGGVGSLNLEELSEMYGIEILPLPVMGGQSQSSDVIIVSSKYKQR
YECRLPAGAIHFQREEREETPAYQGGPIPELLSPMRDAPCLLKTCDWWTYEFQYGRHIQQYHMEDESEIKG
EVLYLGYYSQAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFCDGAGISGDYIDRV
DEPLSCSYVLTIRTPLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYVQRQADSKQYGDKIEELQDLG
PQVWSETKSGVAPQKMGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF
QNNVQVKVIRSPADLIRFIEELKGGTKKGPNIQEQPVDDAAEVPQREPEKERGDPERQREMEEEDEDE
EDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERELENIQETEKELDPDGLKKESEDRAM
LALTSTLNKLIKRLKQSPKELVKKHKKRVVPPKPPSPQPTTEEDPEHRVVRVTKLRLGGPNQDLTVL
EMKRENPLKQIEGLVKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGA
EEAQKERQRQKELESNYRRVWVWSPGGEGTGLDDEFDF
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006812

ORF Size: 2001 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_006812.4](#)

RefSeq Size: 2721 bp

RefSeq ORF: 2004 bp

Locus ID: 10956

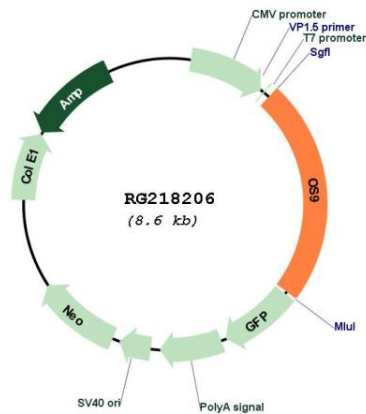
UniProt ID: [Q13438](#)

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 RG218206