

Product datasheet for **RG223296**

OS9 (NM_001017957) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001017957) 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:

>RG223296 representing NM_001017957
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGACTGCTGCTTCTGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC
 AGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGCAATGGTCCAAGTGCACCTTAATGGGAGGCC
 CCGGGAGGCCGAGTTCCGTTCTCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG
 GACGAGCCCTTGCTGCTCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCCTCC
 GGCCCCACCCAGTGCTGCACCGCAGGCCATCCTCTGTCACCCCTCCCTACAGCTGAGGAGTACATGGC
 CTACGTTTACAGAGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGC
 CCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCCGACCAAGG
 ATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGA
 GGTGCCGCTGAGGAGCAGGACCAAGCCCTGAGCAGCAGATTCAGCTTCTGGTCTCCAATGATTTT
 CAGAACAACGTGAGGTCAGGTCATTCGAAGCCCTGCGGATTTGATTGATTGATTGATTGATTGATTGATT
 GTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA
 GAGGGAACAGAGAAGGAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGAT
 GAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGGAAGGAACTGGAAGGGATCC
 TGCTTCCGTGAGCCGAGACCGGCTCCGTTTCGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAA
 GGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAG
 GAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGGTTGTCCCAAAAAGCTCCCCAT
 CACCCCAACTACAGGAAAAATTGAGATCAAAATTGTCCGCCATGGGCTGAAGGGACTGAAGAGGGTGC
 ACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTTCTCAATATCTTGGTCCGGGAGCT
 GAAGAGGCCAGAAAGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGCTCTC
 CAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223296 representing NM_001017957
 Red=Cloning site Green=Tags(s)

MAAETLLSLLGLLLLLGLLPPASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSSDVIVVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDWWTYEFYGRHIQQYHMEDSEIKG
 EVLYLGYYSFAFDWDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLLCDEGAGISGDYIDRV
 DEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAAILCHPSLQPEEYMAVYQRQADSKQYGDKIEELQDLG
 PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF
 QNNVQVKVIRSPADLIRFIEELKGGTKKGNIGQEQPVDDAAEVQREPEKERGDPERQREMEEEDEDED
 EDEDEDEDERQLLGEFEKELEGILLPSDRDRLRSETEKELDPDGLKKESEDRAMLALSTLNKLIKRL
 EKQSPPELVKHKHKKRVVPPKPPSPQPTGKIEIKIVRPWAEGETEERWLTDEDTRNLKEIFFNILVPGA
 EEAQKERQRQKELESNYRRVWVWSPGGEGTGLDEFDF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001017957

ORF Size: 1791 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_001017957.2](#)

RefSeq Size: 2511 bp

RefSeq ORF: 1794 bp

Locus ID: 10956

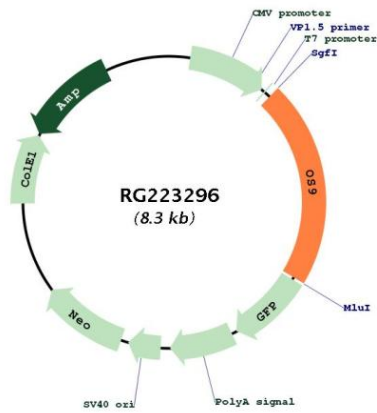
UniProt ID: [Q13438](#)

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 RG223296