

Product datasheet for **RC234384**

OS9 (NM_001261423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001261423) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OS9
Synonyms:	ERLEC2; OS-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234384 representing NM_001261423
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTCTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCCTGTCATGGGAGGCGAGACAAAGGACTGGTGGACATATGAATTCGTTATGGACGCCACATCCAG
 CAATACCACATGGAAGATTCAGAGATCAAAGGTGAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCG
 ACTGGGATGATGAAACAGCCAAGGCCTCAAGCAGCATCGTCTTAAACGCTACCACAGCCAGACCTATGG
 CAATGGGTCCAAGTGGACCTTAATGGGAGGCCCGGGAGGCCGAGGTTCCGTTCTCTGTGACGAGGGT
 GCAGGTATCTCTGGGACTACATCGATCGCGTGGACGAGCCCTTGTCTGCTCTTATGTGCTGACCATTC
 GCACTCCTCGGCTCTGCCCCACCCTCTCTCCGGCCCCACCCAGTGTGCACCGCAGGCCATCCTCTG
 TCACCTTCCCTACAGCCTGAGGAGTACATGGCCTACGTTACAGAGCAAGCCGACTCAAAGCAGTATGGA
 GATAAAATCATAGAGGAGCTGCAAGATCTAGGCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCAC
 CCCAAAAGATGGCAGGTGCGAGCCCGACCAAGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAA
 TGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGAGTGCAGGCTGAGGAGCAGGACCAAGCCCTGAGGCA
 GCAGATTCAGTTCTGGTGTCCCAATGATTTTCAGAACAACGTGCAGGTCAAAGTCATTGGAAGCCCTG
 CGGATTTGATTGATTATAGAGGAGCTGAAAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGA
 GCAGCCTGTGGATGATGCTGCAGAAGTCCCTCAGAGGAAACCAGAGAAGGAAAGGGGTGATCCAGAACGG
 CAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGATGAGGATGAAGATGAGGATGAACGGCAGTTAC
 TGGGAGAATTTGAGAAGGAAGTGAAGGGATCCTGCTCCGTCAGACCGGCTCCGTTCCGGAGAC
 AGAGAAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACA
 TCCACTCTCAACAACTCATCAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGA
 AAAAGAGGGTTGTCCCCAAAAGCCTCCCCATCACCCCAACCTACAGGGAAAATTGAGATCAAAATTGT
 CCGCCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAG
 GAGATCTTCTTAATATCTTGGTCCGGGAGCTGAAGAGGCCAGAAAGCCAGCGGCAGAAAGAGC
 TGGAGAGCAATTACCGCCGGGTGTGGGCTCTCCAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGA
 CTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234384 representing NM_001261423
 Red=Cloning site Green=Tags(s)

MAAETLLSSLLGLLLLLGLLLPASLTGGVGSNLNLEELSEMYRGIIEILPLPVMGGQTKDWWTYEFCYGRHIQ
 QYHMEDESEIKGEVLYLGYYSAFDWDDEAKASKQHRKRYHSQTYGNGSKCDLNGRPREAEVRFCLDEG
 AGISGDYIDRVDEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYVQRQADSKQYG
 DKIEEELQDLGPQVWSEKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEA
 ADSASGAPNDFQNNVQKVIRSPADLIRFIEELKGGTKKGNIGQEQPVDDAAEVPQREPEKERGDPER
 QREMEEEDEDEDEDEDERQLLGEFEKELEGILLPSDRDLRSETEKELDPDGLKKESEDRAMLALT
 STLNKLKRLKQSPQLVKKHKKRVPKPPSPQPTGKIEIKIVRPWAEGETEERWLTDEDRNLK
 EIFFNILVPGAEEAQKERQRQKELESNYRRVWGSPPGEGTGDLDEFDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001261423

ORF Size: 1614 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_001261423.1](#), [NP_001248352.1](#)

RefSeq Size: 2508 bp

RefSeq ORF: 1617 bp

Locus ID: 10956

UniProt ID: [Q13438](#)

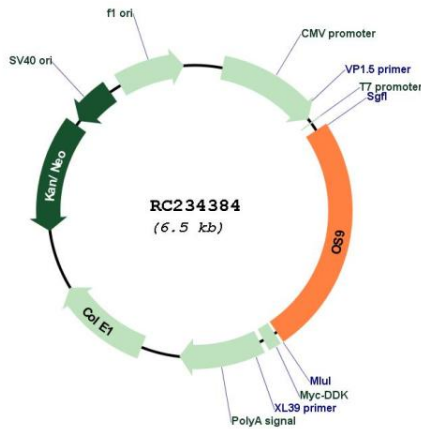
Cytogenetics: 12q13.3-q14.1

Protein Families: Transmembrane

MW: 61.3 kDa

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 RC234384