

Product datasheet for **RC234568**

OS9 (NM_001261420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001261420) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC234568 representing NM_001261420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGACTGTGCTTCTGGACTCCTGTTACCCGCAAGTC
 TGACCGGGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCTGTCATGGGAGGCAGAGCCAATCTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTACAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC
 AGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGCAATGGTCCAAGTGCACCTTAATGGGAGGCC
 CCGGGAGGCCGAGGTTCCGTTCTCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG
 GACGAGCCCTTGTCTGCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCTCTCC
 GGCCCCACCCAGTGCTGCACCGCAGGCCATCCTCTGTCACCCCTCCCTACAGCCTGAGGAGTACATGGC
 CTACGTTACAGAGCAAGCCGTAGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTA
 GGCCCCAAGTGTGGAGTGAGACCAAGTCTGGGTGGCACCCCAAAGATGGCAGGTGCGAGCCCGACCA
 AGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGA
 GGAGGTGCCGGCTGAGGAGCAGGACCAAGCCCTGAGGCAGCAGATTAGCTTCTGGTCTCCAATGAT
 TTTCAGAACAACGTGCAGGTCAAAGTCAATCGAAGCCCTGCGGATTTGATTGATTGATTGATTGATTGATTG
 AAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGTCAGAAAGTCCC
 TCAGAGGGAACCCAGAGAAGGAAAGGGGTATCCAGAACCGCAGAGAGAGATGGAAGAAGAGGAGGATGAG
 GATGAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGAAGGGA
 TCCTGCTTCCGTGACACCGAGACCGGCTCCGTTCCGAGGTGAAGGCTGGCATGGAGCGGAACTGGAAAA
 CATCATCCAGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTACAGAGCGGGATCGGGCA
 ATGCTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGG
 TGAAGAAGCACAAGAAAAAGAGGTTGTCCCAAAAAGCCTCCCCATCACCCCAACCTACAGGGAAAAAT
 TGAGATCAAAATGTCCGCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGAC
 ACGAGAAACCTCAAGGAGATCTTCTTCAATATCTTGGTCCGGGAGCTGAAGAGGCCAGAAAGAACGCC
 AGCGGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGCTCTCCAGGTGGGAGGGCACAGGGGA
 CCTGGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234568 representing NM_001261420
 Red=Cloning site Green=Tags(s)

MAAETLLSSLLGLLLLLGLLLPASLTGGVGSNLNLEELSEMYGIEILPLPVMGGQSQSSDVIIVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDKWWTYEFYGRHIQQYHMESEIKG
 EVLYLGYYSQAFDWDDETAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFVLCDEGAGISGDYIDRV
 DEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYVQRQAVDSKQYGDKIIIEELQDL
 GPQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPND
 FQNNVQKVIRSPADLIRFIEELKGGTKKGPNIHQEQPVDDAAEVPQREPEKERGDPERQREMEEEDE
 DEDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERELENIQEETEKELDPDGLKKESEDRDRA
 MLALTSTLNKLIKRLKQSPQLVKKHKKRVPKPPSPQPTGKIEIKIVRPWAEGETEERARWLTDED
 TRNLKEIFFNILVPGAEAAQKERQRQKELESNYRRVWVWSPGGEGTGDLEDFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Restriction Sites: SgfI-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](#)

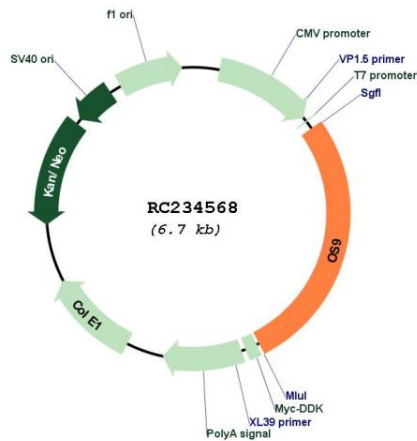
Cytogenetics: 12q13.3-q14.1

Protein Families: Transmembrane

MW: 69.8 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 RC234568