

## Product datasheet for **RC234433**

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

#### Product data:

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

>RC234433 representing NM\_001261422  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC  
 TGACCGCGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC  
 GTTGCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC  
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACACCTGCTTACC  
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG  
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTACAGAGATCAAAGGT  
 GAATTCCTCTGTGACGAGGGTGCAGGTATCTCTGGGGACTACATCGATCGCGTGGACGAGCCCTTGTCT  
 GCTCTTATGTGCTGACCATTGCACTCCTCGGCTCTGCCCCACCCTCTCCTCCGGCCCCACCCAGTGC  
 TGCACCGCAGGCCATCCTGTGACCCCTCCCTACAGCCTGAGGAGTACATGGCCTACGTTACAGAGGCAA  
 GCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGCCCCAAGTGTGGAGTG  
 AGACCAAGTCTGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCGACCAAGGATGACAGTAAGGACTC  
 AGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGAGGTGCCGGCTGAGGAG  
 CAGGACCAAGCCCTGAGGCAGCAGATTAGCTTCTGGTCTCCCAATGATTTTTCAGAACACGTGCAGG  
 TCAAAGTCATTCGAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGAAAGGTGGAACAAAAAGGG  
 GAAGCCAAATATAGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCAGAGGGAACCAGAGAAG  
 GAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGATGAGGATGAAG  
 ATGAGGATGAACGCAGTTACTGGGAGAATTTGAGAAGGAAGTGAAGGGATCCTGCTCCGTGAGACCG  
 AGACCGGCTCCGTTCCGAGGTGAAGGCTGGCATGGAGCGGGAAGTGGAAAACATCATCCAGGAGACAGAG  
 AAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAAGCGGGATCGGGCAATGCTGGCTCTCACATCCA  
 CTCTCAACAAACTCATAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAA  
 GAGGGTTGTCCCAAAAAGCCTCCCCATACCCCAACCTACAGGGAAAAATTGAGATCAAATTTGCCG  
 CCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAAAACCTCAAGGAGA  
 TCTTCTCAATATCTTGGTGCCGGGAGCTGAAGAGGCCCAGAAGGAACGCCAGCGGCAGAAAGAGCTGGA  
 GAGCAATTACCGCCGGGTGTGGGCTCTCCAGGTGGGAGGGCACAGGGACCTGGACGAATTTGACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234433 representing NM\_001261422  
 Red=Cloning site Green=Tags(s)

MAAETLLSLLGLLLLLGLLPPASLTGGVGLNLEELSEMYGIEILPLPVMGGQSQSSDVIIVSSKYKQR  
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDWWTYEFYGRHIQQYHMEDESEIKG  
 EFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAAILCHPSLQPEEYMAVYVQRQ  
 ADSKQYGDKIIIEELQDLGPQVWSETKSGVAPQKMGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEE  
 QDPSPEAADSASGAPNDFQNNVQKVIKIRSPADLIRFIEELKGGTKKGPNIHQEQPVDDAAEVPQREPEK  
 ERGDPERQREMEEEDEDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERELENIIQETE  
 KELDPDGLKKESEDRAMLALSTLNKLIKRLKQSPKELVKKHKKRVPKPPSPQPTGKIEIKIVR  
 PWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQKQKELESNYRRVWGSPPGGEGTDLDEFDF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**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](#)

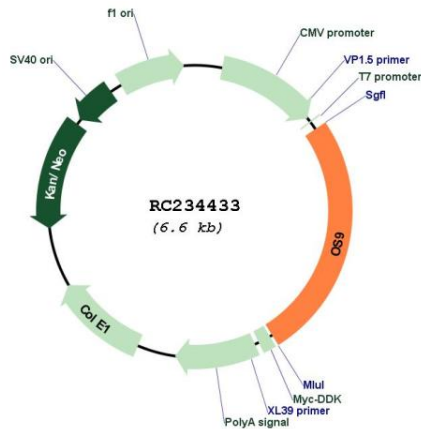
**Cytogenetics:** 12q13.3-q14.1

**Protein Families:** Transmembrane

**MW:** 63.6 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 RC234433