

## Product datasheet for **RC223296**

### OS9 (NM\_001017957) Human Tagged ORF Clone

#### Product data:

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

>RC223296 representing NM\_001017957  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC  
 TGACCGCGGTGTCGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC  
 GTTGCCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAACAGCGC  
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACACCTGCTTACC  
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG  
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT  
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC  
 AGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGCAATGGGTCGAAGTGCACCTTAATGGGAGGCC  
 CCGGGAGGCCGAGTTCCGTTCTCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG  
 GACGAGCCCTTGTCTGCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCCTCC  
 GGCCCCACCCAGTGCTGCACCGCAGGCCATCCTCTGTCACCCCTCCCTACAGCCTGAGGAGTACATGGC  
 CTACGTTTACAGAGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGC  
 CCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCCGACCAAGG  
 ATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGA  
 GGTGCCGCTGAGGAGCAGGACCAAGCCCTGAGGCAGCAGATTCAGCTTCTGGTCTCCAATGATTTT  
 CAGAACAACGTGACAGTCAAAGTCATTCGAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGAAAG  
 GTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA  
 GAGGGAACAGAGAAGGAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGAT  
 GAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGGAAGGAACTGGAAGGGATCC  
 TGCTTCCGTGACACCGAGACCGGCTCCGTTTCGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAA  
 GGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAG  
 GAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGGTTGTCCTCAAAAGCTCCCCAT  
 CACCCCAACTACAGGAAAAATTGAGATCAAAATTGTCGCCCCATGGGCTGAAGGACTGAAGAGGGTGC  
 ACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTTCTCAATATCTTGGTCCGGGAGCT  
 GAAGAGGCCAGAAAGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGCTCTC  
 CAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223296 representing NM\_001017957  
 Red=Cloning site Green=Tags(s)

MAAETLLSSLLGLLLLGLLLPAALTTGGVGLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQR  
 YECRLPAGAIHFQREEREETPAYQGPIPELLSPMRDAPCLLTKDWWTYEFQYGRHIQQYHMESEIKG  
 EVLYLGYYSQAFDWDDETAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFLLCDEGAGISGDYIDRV  
 DEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQAILCHPSLQPEEYMAVYVQRQADSKQYGDKIEELQDLG  
 PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF  
 QNNVQVKVIRSPADLIRFIEELKGGTKKGNIGQEQPVDDAAEVQREPEKERGDPERQREMEEEDEDE  
 EDEDEDEDERQLLGEFEKELEGILLPSDRDLRSETEKELDPDGLKESERDRAMLALSTLNKLIKRL  
 EKQSPSELVKKHKKRVVPKPPSPQPTGKIEIKIVRPWAEGETEAGRWLTDTRNLKEIFFNILVPGA  
 EEAQKERQRQKELESNYRRVWSPGGEGTGDLEDFDF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8069\\_a04.zip](https://cdn.origene.com/chromatograms/mk8069_a04.zip)

Restriction Sites: SgfI-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](#)

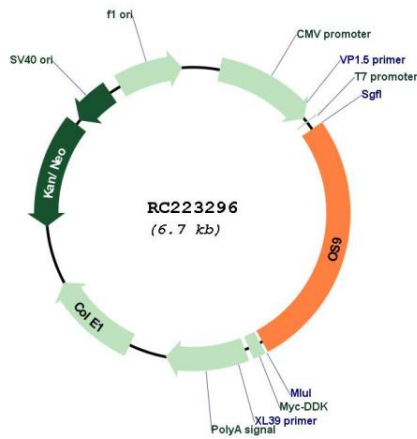
Cytogenetics: 12q13.3-q14.1

Protein Families: Transmembrane

MW: 67.51 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 RC223296