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# Product datasheet for RC218206

## OS9 (NM_006812) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | OS9 (NM_006812) 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:**

>RC218206 representing NM_006812
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGAAACGCTGCTGTCCAGTTTGTTAGGACTGCTGCTTCTGGGACTCCTGTTACCCGCAAGTC
TGACCGGCGGTGTCGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
GTTGCCTGTCATGGGAGGGCAGAGCCAATCTTCGGACGTGGTGATTGTCTCCTCTAAGTACAAACAGCGC
TATGAGTGTCGCCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGGAAACACCTGCTTACC
AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGCTGAAGACAAAGGACTG
GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTCAGAGATCAAAGGT
GAAGTCCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCCTCCAAGC
AGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGCAATGGGTCCAAGTGCGACCTTAATGGGAGGCC
CCGGGAGGCCGAGGTTCGGTTCCTCTGTGACGAGGGTGCAGGTATCTCTGGGGACTACATCGATCGCGTG
GACGAGCCCTTGTCCTGCTCTTATGTGCTGACCATTCGCACTCCTCGGCTCTGCCCCCACCCTCTCCTCC
GGCCCCCACCCAGTGCTGCACCGCAGGCCATCCTCTGTCACCCTTCCCTACAGCCTGAGGAGTACATGGC
CTACGTTCAGAGGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGC
CCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCCAAAAGATGGCAGGTGCGAGCCCGACCAAGG
ATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGA
GGTGCCGGCTGAGGAGCAGGACCCAAGCCCTGAGGCAGCAGATTCAGCTTCTGGTGCTCCCAATGATTTT
CAGAACAACGTGCAGGTCAAAGTCATTCGAAGCCCTGCGGATTTGATTCGATTCATAGAGGAGCTGAAAG
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GAGGGAACCAGAGAAGGAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGAT
GAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAACTGGAAGGGATCC
TGCTTCCGTCAGACCGAGACCGGCTCCGTTCGGAGGTGAAGGCTGGCATGGAGCGGGAACTGGAGAACAT
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CTGGCTCTCACATCCACTCTCAACAAACTCATCAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGA
AGAAGCACAAGAAAAAGAGGGTTGTCCCCAAAAAGCCTCCCCCATCACCCCAACCTACAGAGGAGGATCC
TGAGCACAGAGTCCGGGTCCGGGTCACCAAGCTCCGTCTCGGAGGCCCTAATCAGGATCTGACTGTCCTC
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GAAGAGGCCCAGAAGGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGGCTCTC
CAGGTGGGGAGGGCACAGGGGACCTGGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218206 representing NM_006812
Red=Cloning site Green=Tags(s)

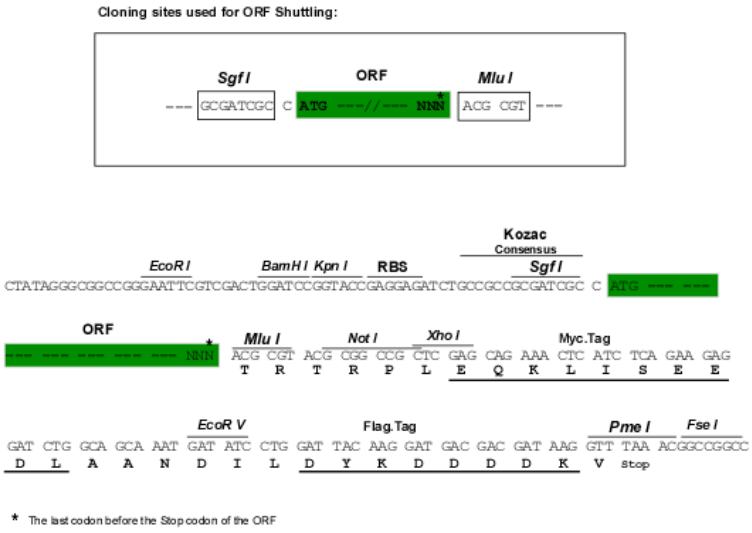
MAAETLLSSLLGLLLLGLLLPASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQR
YECRLPAGAIHFQRERFEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG
EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV
DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYVQRQADSKQYGDKIIEELQDLG
PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF
QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED
EDEDEDEDERQLLGEFEKELEGILLPSDRDRLRSEVKAGMERELENIIQETEKELDPDGLKKESERDRAM
LALTSTLNKLIKRLEEKQSPELVKKHKKKRVVPKKPPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVL
EMKRENPQLKQIEGLVKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGA
EEAQKERQRQKELESNYRRVWGSPGGEGTGDLDEFDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6165_g11.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_006812

**ORF Size:** 2001 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_006812.4

**RefSeq Size:** 2721 bp

**RefSeq ORF:** 2004 bp

**Locus ID:** 10956

**UniProt ID:** Q13438

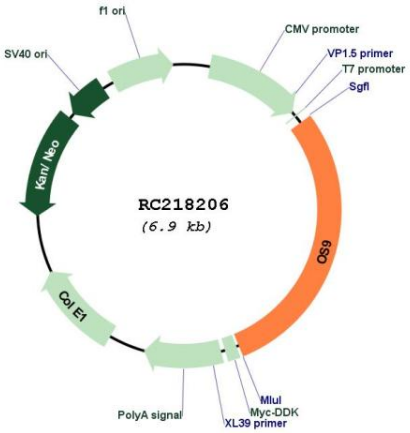
**Cytogenetics:** 12q13.3-q14.1

**Protein Families:** Transmembrane

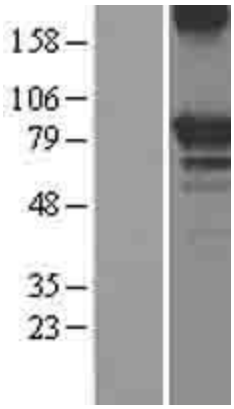
**MW:** 75.56 kDa

**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]

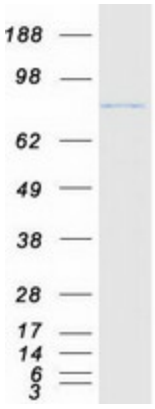
## Product images:




Circular map for RC218206




Western blot validation of overexpression lysate (Cat# [LY402037]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218206 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified OS9 protein (Cat# [TP318206]). The protein was produced from HEK293T cells transfected with OS9 cDNA clone (Cat# RC218206) using MegaTran 2.0 (Cat# [TT210002]).