

Product datasheet for **RC201853**

OS9 (NM_001017956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001017956) 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:

>RC201853 representing NM_001017956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGAAACGCTGCTGTCCAGTTTGTAGACTGTGCTTCTGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCTGTCATGGGAGGCAGAGCCAATCTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCTCCAAGC
 AGCATCGTCTAAACGCTACCACAGCCAGACCTATGGCAATGGTCCAAGTGCACCTTAATGGGAGGCC
 CCGGGAGGCCGAGTTCCGTTCTCTGTGACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTG
 GACGAGCCCTTGCTGCTCTTATGTGCTGACCATTTCGACTCCTCGGCTCTGCCCCACCTCTCCTCC
 GGCCCCACCCAGTGTGCACCGCAGGCCATCCTCTGTCACCCCTCCCTACAGCTGAGGAGTACATGGC
 CTACGTTTACAGAGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGC
 CCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCCGACCAAGG
 ATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGA
 GGTGCCGCTGAGGAGCAGGACCAAGCCCTGAGGACGAGATTCAGCTTCTGGTCTCCAATGATTTT
 CAGAACAACGTGCAGGTCAAAGTCATTCGAAGCCCTGCGGATTTGATTGATTATAGAGGAGCTGAAAG
 GTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAAGTCCCTCA
 GAGGGAACAGAGAAGGAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGAT
 GAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGGAAGGAACTGGAAGGGATCC
 TGCTTCCGTGAGCCGAGACCGGCTCCGTTTCGAGGTGAAGGCTGGCATGGAGCGGGAACGGAAAAACAT
 CATCCAGGAGACAGAGAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATG
 CTGGCTCTCACATCCACTCTCAACAACTCATCAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGA
 AGAAGCACAAGAAAAAGAGGGTTGTCCCAAAAAGCCTCCCCATCACCCAACTACAGGAAAAATTGA
 GATCAAATTGTCCGCCATGGGCTGAAGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACG
 AGAAACCTCAAGGAGATCTTCTCAATATCTTGGTGCCGGGAGCTGAAGAGGCCAGAAGGAACGCCAGC
 GGCAGAAAGAGCTGGAGAGCAATTACCGCCGGGTGTGGGCTCTCCAGGTGGGGAGGGCACAGGGGACCT
 GGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201853 representing NM_001017956
 Red=Cloning site Green=Tags(s)

MAAETLLSSLLGLLLLLGLLLPASLTGGVGSNLEELSEMRYGIEILPLPVMGGQSQSSDVIVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDKWWTYEFQYGRHIQQYHMESEIKG
 EVLYLGYYSQAFDWDDETAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFLLCDEGAGISGDYIDRV
 DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAVYVQRQADSKQYGDKIEELQDLG
 PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF
 QNNVQVKVIRSPADLIRFIEELKGGTKKGNIGQEQPVDAAEVPQREPEKERGDPERQREMEEEDEDED
 EDEDEDEDERQLLGEFEKELEGILLPSDRDLRSEVKAGMERLENI IQETEKELDPDGLKKESEDRAM
 LALSTLNLKIKRLEEKQSPELVKKHKKRVVPPKPPSPQPTGKIEIKIVRPWAEGTEEGARWLTDEDT
 RNLKEIFFNILVPGAEAAQKERQRQKELESNYRRVWVWSPGGEGTGDLEDFDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001017956

ORF Size: 1836 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

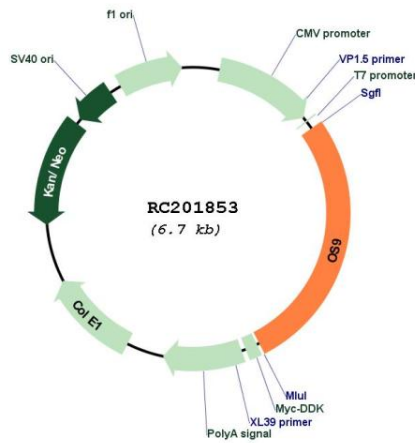
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001017956.2](#), [NP_001017956.1](#)
RefSeq Size: 2730 bp
RefSeq ORF: 1839 bp
Locus ID: 10956
UniProt ID: [Q13438](#)
Cytogenetics: 12q13.3-q14.1
Protein Families: Transmembrane
MW: 69.2 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 RC201853