

## Product datasheet for **SC320247**

### OS9 (NM\_001017956) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001017956) Human Untagged Clone
Tag:	Tag Free
Symbol:	OS9
Synonyms:	ERLEC2; OS-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

```
>OriGene sequence for NM_001017956.1
GGGGAACGAAAGATGGCGGCGGAAACGCTGCTGTCCAGTTTGTAGGACTGCTGCTTCTG
GGACTCCTGTTACCCGCAAGTCTGACCGGCGGTGTGGGAGCCTGAACCTGGAGGAGCTG
AGTGAGATGCGTTATGGGATCGAGATCCTGCCGTTGCCTGTCATGGGAGGGCAGAGCCAA
TCTTCGGACGTGGTGATTGTCTCCTCTAAGTACAAACAGCGCTATGAGTGTGCGCTGCCA
GCTGGAGCTATTCACCTCCAGCGTAAAAGGGAGGAGGAAACACCTGCTTACCAAGGGCCT
GGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGGCTGAAGACAAAAGGAC
TGGTGGACATATGAATCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTCA
GAGATCAAAGGTGAAGTCTCTATCTCGCTACTACCAATCAGCCTTCGACTGGGATGAT
GAAACAGCCAAGGCTCCAAGCAGCATCGTCTTAAACGCTACCACAGCCAGACCTATGGC
AATGGGTCCAAGTGCACCTTAATGGGAGGCCCGGGAGGCCGAGGTTTCGTTTCTCTGT
GACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTGGACGAGCCCTTGTCTGC
TCTTATGTGCTGACCATTGCACTCCTCGGCTCTGCCCCACCCTCTCTCCGGCCCCCA
CCCAGTGTGCACCGCAGGCCATCCTCTGTACCCTTCCCTACAGCCTGAGGAGTACATG
GCCTACGTTCCAGAGGCAAGCCGACTCAAAGCAGTATGGAGATAAAATCATAGAGGAGCTG
CAAGATCTAGGCCCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCCAAAAGATG
GCAGGTGCGAGCCGACCAAGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAAT
GAGCCAGAGGACCAGGCCCCAGGAGGGGAGGAGGTGCCGGCTGAGGAGCAGGACCCAAGC
CCTGAGGCAGCAGATTACGCTTCTGGTGTCCCAATGATTTTTCAGAACAACTGCAGGTC
AAAGTCATTGCAAGCCCTGCGGATTTGATTTCGATTCATAGAGGAGCTGAAAGGTGGAACA
AAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCT
CAGAGGGAACAGAGAAGGAAAGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAG
GAGGATGAGGATGAGGATGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGATTT
GAGAAGGAACTGGAAGGGATCCTGCTTCCGTGACACCGAGACCGGCTCCGTTTCGGAGGTG
AAGGCTGGCATGAGCGGGAACGGAAAACATCATCCAGGAGACAGAGAAAGAGCTGGAC
CCAGATGGGCTGAAGAAGGAGTCAAGCGGGATCGGGCAATGCTGGCTCTCACATCCACT
CTCAACAAACTCATCAAAAGACTGGAGGAAAACAGAGTCCAGAGCTGGTGAAGAAGCAC
AAGAAAAAGAGGGTTGTCCCAAAAAGCCTCCCCATCACCCCAACTACAGGGAAAATT
GAGATCAAAATTTCCGCCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACT
GATGAGGACACGAGAAACCTCAAGGAGATCTTCTTCAATATCTTGGTCCCGGAGCTGAA
GAGGCCCAAGAAAGCAGCCAGCGCAGAAAGAGCTGGAGAGCAATACCAGCCGGGTGGG
GGCTCTCCAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGACTTCTGAGACCAACAC
TACACTTGACCCTTACGGAATCCAGACTTCTCCTGGACTGGCTTGCCTCCTCCCACT
CCCCACCCTGAAACCCCTGAGGGCCAAACAGCAGAGTGGAGCTGAGCTGTGGACCTCTCG
GGCAACTCTGTGGGTGTGGGGCCCTGGGTGAATGCTGCTGCCCTGCTGGCAGCCACCT
TGAGACCTCACCGGGCTGTGATATTTGCTCTCCTGAACTCTCACTCAATCCTCTTCTC
TCCTCTGTGGCTTTTCTGTTATTTGCTCCCTAATGATAGGATATCCCTGCTGCCTACCT
GGAGATTCAGTAGGATCTTTGAGTGGAGTGGGTAGAGAGAGCAAGGAGGCAGGACAC
TTAGCAGGCACTGAGCAAGCAGGCCCCACCTGCCCTTAGTGATGTTTGGAGTCGTTTTTA
CCCTCTTCTATTGAATTGCCTTGGGATTTCTTCTCCCTTTCCCTGCCACCCCTGTCCCC
TACAATTTGTGCTTCTGAGTTGAGGAGCCTTACCTCTGTTGCTGAGGAAATGGTAGAAT
GCTGCCTATCACCTCCAGCACAATCCCAGTGAAAAAGGTGTAAGCACCCACCATGTTCT
TGAACAATCAGGTTTCTAAATAAACAACCTGGACCATCAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001017956

**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001017956.1](#), [NP\\_001017956.1](#)

**RefSeq Size:** 2556 bp

**RefSeq ORF:** 1839 bp

**Locus ID:** 10956

**UniProt ID:** [Q13438](#)

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

**Protein Families:** Transmembrane

**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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The resulting isoform (2, also referred to as OS-9-2) is shorter than isoform 1.