

# Product datasheet for TP316820L

### OS9 (NM\_001017958) Human Recombinant Protein

#### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

| Product Type:Recombinant ProteinsDescription:Recombinant protein of human osteosarcoma amplified 9, endoplasmic reticulum associated<br>protein (OS9), transcript variant 4, 1 mgSpecies:HumanExpression HOXAFKEX293TExpression cDNA<br>Sequence:>RC216820 representing NM_001017958<br>Red=Cloning site Green=Tags(s)Species:MAAETLLSSLLGLLLLGLLLASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSDDVIVSSKYKQR<br>YECRLPAGAIHEQREREETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYQSAFDWDDETAKASKQHRLKRYHSQTYGROSSKCDLNGRPREAEVRELCDEGAGIGSDVIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPSAAPQAILCHPSLQPEEYMAVQQQADSKQYGDKIIEELQDLG<br>PQVWSETKSGVAPQKMAGASPTKDDSKODPWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDE<br>QNNVQVKVIRSPADLIRFIEELGGILLPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTINLKILKRLE<br>EKQSPELVKKHKKKRVPKKPPSPQPTEDPETBRVRRVRTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NVRRWGSPGGEGTGDLDEFDFTag:C-Myc/DDKTag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Storage:Storage'C. | i oddet data.    |  |
|---|------------------|--|
| protein (OS9), transcript variant 4, 1 mgSpecies:HumanExpression Host:HEK293TExpression cDNA<br>Clone or AA<br>Sequence:>RC216820 representing NM_001017958MAAETLLSSLLGLLLLGLLLPASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQR<br>YECRLPAGAIHFQREREEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDUNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSWLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYQQQADSKQYGDKIIEELQDLG<br>PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEVPAEEQDPSPEAADSASGAPNDF<br>QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED<br>EDEDEDEDEDEDEDEDCHQLLGEFEKELGOILLPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTINKLIKRLE<br>EKQSPELVKKHKKRWVPKKPPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKNRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NVRRVWGSPGGEGTGDLDEFDFTag:C-Myc/DDKPredicted MW:1.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.  | Product Type:    | Recombinant Proteins   |
| Expression Host:HEK293TExpression cDNA<br>Clone or AA<br>Sequence:>RC216820 representing NM_001017958<br>Red=Cloning site Green=Tags(s)MAAETLLSSLLGLLLGLLLPAGAIHFQREEETPAYQGPGJPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEVMAYQQRADSKQYGDKIIEELQDLG<br>PQWVSETKSGVAPQKMAGASPTKDDSKDDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF<br>QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED<br>EDEDEDEDERQLLGFFEKELEGILLPSDRDR.RSETEKELDDPDGLKKESERDRAMLALTSTLNKLIKRLE<br>EKQSPELVKKHKKKRVVPKKPPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NYRRVWGSPGGEGTGDLDEFDFTag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.   | Description:     |  |
| Expression cDNA<br>Clone or AA<br>Sequence:>RC216820 representing NM_001017958<br>Red=Cloning site Green=Tags(s)MAAETLLSSLLGLLLGLLLPASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQR<br>YECRLPAGAIHFQREREEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYQQQADSKQYGDKIIEELQDLG<br>PQVWSETKSGVAPQKMAGASPTKDDSKDSDFVWMLNEPEDQAPGGEEVPAEEQDPSPEAADSAGGAPNDF<br>QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKEGDPERQREMEEEEDED<br>EDEDEDEDERQLLGEFEKELEGILPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTLNKLIKRLE<br>EKQSPELVKKHKKRWVPKKPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NVRRWGSPGGEGTGDLDEFDFTag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.   | Species:         | Human  |
| Clone or AA<br>Sequence:Red=Cloning site Green=Tags(s)MAAETLLSSLLGLLLGLLLASLTGGVGSLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQR<br>YECRLPAGAIHFQREREEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLVLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYVQRQADSKQYGDKIIEELQDLG<br>PQWWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF<br>QNNVQVKVIRSPADLIRFIELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED<br>EDEDEDEDEDEDEDERQLLGEFEKELEGILLPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTLNKLIKRLE<br>EKQSPELVKKHKKKNVPKKPPPSPPTEDPEHRVRVRVTKLRLGGPNQDLTVLEMKKENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NYRRVWGSPGGEGTGDLDEFDFTag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.  | Expression Host: | HEK293T  |
| YECRLPAGAIHFQREREETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYVQRQADSKQYGDKIIEELQDLG<br>PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNPEPDQAPGGEEVPAEEQDPSPEAADSASGAPNDF<br>QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED<br>EDEDEDEDERQLLGEFEKELEGILLPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTLNKLIKRLE<br>EKQSPELVKKHKKRVVPKKPPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGITAAGKIEIKINRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NYRRVWGSPGGEGTGDLDEFDFTag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.  | Clone or AA      |  |
| Tag:C-Myc/DDKPredicted MW:71.3 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |                  | YECRLPAGAIHFQREREEETPAYQGPGIPELLSPMRDAPCLLKTKDWWTYEFCYGRHIQQYHMEDSEIKG<br>EVLYLGYYQSAFDWDDETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRV<br>DEPLSCSYVLTIRTPRLCPHPLLRPPPSAAPQAILCHPSLQPEEYMAYVQRQADSKQYGDKIIEELQDLG<br>PQVWSETKSGVAPQKMAGASPTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDF<br>QNNVQVKVIRSPADLIRFIEELKGGTKKGKPNIGQEQPVDDAAEVPQREPEKERGDPERQREMEEEEDED<br>EDEDEDEDERQLLGEFEKELEGILLPSDRDRLRSETEKELDPDGLKKESERDRAMLALTSTLNKLIKRLE<br>EKQSPELVKKHKKKRVVPKKPPPSPQPTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPQLKQIEGL<br>VKELLEREGLTAAGKIEIKIVRPWAEGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELES<br>NYRRVWGSPGGEGTGDLDEFDF |
| Predicted MW:71.3 kDaConcentration:>0.05 μg/μL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.   | Tag              |  |
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| Preparation:Recombinant protein was captured through anti-DDK affinity column followed by conventional<br>chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.   | Purity:          |  |
| Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.  | Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| some loss of protein during the filtration process.   | Preparation:     |  |
| Storage: Store at -80°C.  | Note:            |  |
|   | Storage:         | Store at -80°C.  |



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|                  | OS9 (NM_001017958) Human Recombinant Protein – TP316820L  |
|------------------|---|
| Stability:       | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.   |
| RefSeq:          | <u>NP 001017958</u>   |
| Locus ID:        | 10956   |
| UniProt ID:      | <u>Q13438</u>   |
| RefSeq Size:     | 2676  |
| Cytogenetics:    | 12q13.3-q14.1   |
| RefSeq ORF:      | 1956  |
| Synonyms:        | ERLEC2; OS-9  |
| 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] |
| Protein Families | Transmembrane   |

## **Product images:**

| 116 — | - |
|-------|---|
| 66 —  | - |
| 45 —  | - |
| 35 —  | - |
| 25 —  | - |
| 18 —  |   |
| 14    | - |

Coomassie blue staining of purified OS9 protein (Cat# [TP316820]). The protein was produced from HEK293T cells transfected with OS9 cDNA clone (Cat# [RC216820]) using MegaTran 2.0 (Cat# [TT210002]).

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