

Product datasheet for **SC326310**

ORP150 (HYOU1) (NM_001130991) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ORP150 (HYOU1) (NM_001130991) Human Untagged Clone
Tag: Tag Free
Symbol: HYOU1
Synonyms: GRP-170; Grp170; HSP12A; IMD59; ORP-150; ORP150
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001130991, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCT
GTGCTCTTGCCAGACCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTG
GGCAGTGAGTCCATGAAGGTGGCCATTGTCAAACCTGGAGTGCCCATGGAAATTGTCTTG
AATAAGGAATCTCGGAGGAAAACACCGGTGATCGTGACCCTGAAAGAAAATGAAAGATTC
TTTGGAGACAGTGCAGCAAGCATGGCGATTAAGAATCAAAGGCTACGCTACGTTACTTC
CAGCACCTCCTGGGAAGCAGGCAGATAACCCCATGTAGCTCTTACCAGGCCCGCTTC
CCGGAGCACGAGCTGACTTTCGACCCACAGAGGCAGACTGTGCACTTTCAGATCAGCTCG
CAGCTGCAGTTCTCACCTGAGGAAAGTGTGGGCATGGTTCTCAATTATTCTCGTTCTCTA
GCTGAAGATTTTGCAGAGCAGCCATCAAGGATGCAGTGATCACCGTGCCAGTCTTCTTC
AACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTCAAAGTGCTG
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ATTAACACCACTGCCAGAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGC
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ATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGCCTGGAGATGGAGCTCCGGCTTCGA
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ATCCTGGTGGGTGGGCCACTCGGGTCCCAGAGTTCAGGAGGTGCTGCTGAAGGCCGTG
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TACCAGGCAGCTGCGCTCAGCAAAGCCTTAAAGTGAAGCCATTTGTCGTCGAGATGCA
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AGCCTGAAGCACATAAACGGGTA CTCTCTCGGATGGGGCCCTACCTCAACGCAAA
GTCATCACCTTTAACCGCTACAGCCATGATTTCAACTTCCACATCAACTACGGCGACCTG
GGCTTCTCGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAATCTGACCACAGTGAAG
CTAAAAGGGTGGGTGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAG
GCTCACTTCAACCTGGATGAGAGTGGCGTGCTCAGTCTAGACAGGGTGGAGTCTGTATTT
GAGACACTGGTAGAGGACAGCGCAGAAGAGGAATCTACTCTACCAAACCTGGCAACACC
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ATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAATGGTACTGATACT
GTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTG
GAGCTCAAGGAGGAAGCTGAGGCCCCAGTGGAGGATGGCTCTCAGCCCCACCCCTGAA
CCTAAGGGAGATGCAACCCTGAGGGGAGAAAAGGCCACAGAAAAAGAAAATGGGGACAAG
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GTCATCCCTCCAGCAGGCCAGACTGAAGATGCAGAGCCCATTTTCAGAACCTGAGAAAGTA
GAGACTGGATCCGAGCCAGGAGACACTGAGCCTTTGGAGTTAGGAGGTCTGGAGCAGAA
CCTGAACAGAAAAGCAATCGACAGGACAGAAGCGGCCTTGAAGAACGACGAATA

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| Restriction Sites: | Please inquire |
| ACCN: | NM_001130991 |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | <ol style="list-style-type: none"> 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: | <u>NM_001130991.1</u> , <u>NP_001124463.1</u> |
| RefSeq Size: | 4498 bp |
| RefSeq ORF: | 3000 bp |
| Locus ID: | 10525 |

UniProt ID: [Q9Y4L1](#)

Cytogenetics: 11q23.3

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the heat shock protein 70 family. This gene uses alternative transcription start sites. A cis-acting segment found in the 5' UTR is involved in stress-dependent induction, resulting in the accumulation of this protein in the endoplasmic reticulum (ER) under hypoxic conditions. The protein encoded by this gene is thought to play an important role in protein folding and secretion in the ER. Since suppression of the protein is associated with accelerated apoptosis, it is also suggested to have an important cytoprotective role in hypoxia-induced cellular perturbation. This protein has been shown to be up-regulated in tumors, especially in breast tumors, and thus it is associated with tumor invasiveness. This gene also has an alternative translation initiation site, resulting in a protein that lacks the N-terminal signal peptide. This signal peptide-lacking protein, which is only 3 amino acids shorter than the mature protein in the ER, is thought to have a housekeeping function in the cytosol. In rat, this protein localizes to both the ER by a carboxy-terminal peptide sequence and to mitochondria by an amino-terminal targeting signal. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1.