

Product datasheet for SC214545

ORP150 (HYOU1) (NM_001130991) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Product Name: ORP150 (HYOU1) (NM_001130991) Human 3' UTR Clone

Symbol: ORP150

Synonyms: GRP-170; Grp170; HSP12A; IMD59; ORP-150; ORP150

Mammalian Cell Neomycin

Selection:

Vector: pMirTarget (PS100062)

ACCN: NM_001130991

Insert Size: 1435 bp

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Insert Sequence:

>SC214545 3'UTR clone of NM_001130991

The sequence shown below is from the reference sequence of $NM_001130991$. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

AAGCGGCCTTTGAAGAACGACGAACTATAACCCCCACCTCTGTTTTCCCCATTCATCTCCACCCCCTTC CCCCACCACTTCTATTTATTTAACATCGAGGGTTGGGGGAGGGGTTGGTCCTGCCCTCGGCTGGAGTTC CTTTCTCACCCCTGTGATTTGGAGGTGTGGAGAAGGGGAAGGGAAGGGACAGCTCACTGGTTCCTTCTGC AGTACCTCTGTGGTTAAAAATGGAAACTGTTCTCCTCCCCAGCCCCACTCCCTGTTCCCTACCCATATA GGCCCTAAATTTGGGAAAAATCACTATTAATTTCTGAATCCTTTGCCTGTGGGTAGGAAGAGAATGGCT GCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGGAGTTTCCACTCTTCTCTGG TGATTGTTCCTTCCCTCCCTCCCACCATGCGATGAGCATCCTTTCAGGCCAGTGTCTGCAGAG TCTGAGCCTCCCTTCCCCATTCCCATCCAGCTCCTTTCCCCCTGGGTTTCCTTGGCTTCCTGCAGCAAA TTGGGCAGTTCTCTGCCCTTGCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGAT CTCTCCGAAGAGGAAAGCCACGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCATAA TCTGCATCTTCCCAGCAGCCTGGTACCCCAGGTTCCTGTAACTCCCTGCCTCCTCCTCTTCTGCTGT TCTGCTCCTCCAGACAGAGCCTTTCCCTCACCCCCTGACCCCCTGGGCTGACCAAAATGTGCTTTCTA CTGTGAGTCCCTATCCCAAGATCCTGGGGAAAGGAGACCATGGTGTGAATGTAGAGATGCCACCTCC CTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAGGGTCAGGGCTGGCCTTCCTCTGTGCATCACTCTG CTAGGTTGGGGGCCCCCGACCCACACTACCTACGCCTAGGGAGCCCGTCCTCCAGTATTCCGTCTGTAG CAGGAGCTAGGGCTGCTCCCAGCTCCAAGACAAGAATGAACCTGGCTGTCTCAGTCATTTTGTCTTT TCCTTTTTTTTTTTTTTGCCACATTGGCAGAGATGGGACCTAAGGGTCCCACCCCTCACCCCACCCC CACCTCTTCTGTATGTTTGAATTCTTTCAGTAGCTGTTGATGCTGGTTGGACAGGTTTGAGTCAAATTG TACTTTGCTCCATTGTTAATTGAGAAACTGTTTCAATAAAATATTCTTTTCTACA

CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a

point of reference. Note that the complete sequence of this clone is largely the same as the

reference sequence but may contain minor differences, e.g., single nucleotide

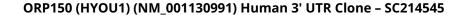
polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The

package also includes 100 pmols of both the corresponding 5' and 3' vector primers in

separate vials.

RefSeq: NM 001130991.3





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]

Locus ID: 10525 MW: 53.3