

## Product datasheet for **TP701087**

### ORP150 (HYOU1) (NM\_006389) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human hypoxia up-regulated 1 (HYOU1), transcript variant 1, Leu33-end, with C-terminal His tag, secretory expressed in HEK293 cells, 50ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC214178, encoding the region Leu33-end of HYOU1
Tag:	C-HIS
Predicted MW:	108.9kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
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:	<a href="#">NP_006380</a>
Locus ID:	10525
UniProt ID:	<a href="#">Q9Y4L1</a> , <a href="#">A0A384P5T6</a> , <a href="#">Q6IN6Z</a> , <a href="#">B7Z766</a> , <a href="#">B3KXH0</a>
RefSeq Size:	4552
Cytogenetics:	11q23.3
RefSeq ORF:	2997
Synonyms:	GRP-170; Grp170; HSP12A; IMD59; ORP-150; ORP150



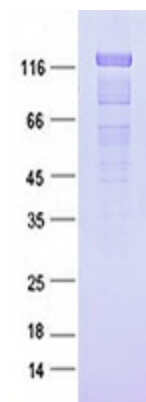
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**Summary:**

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]

**Protein Families:**

Transmembrane

**Product images:**

Purified recombinant protein HYOU1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.