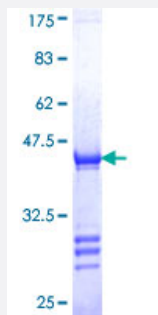


# HYOU1 (Human) Recombinant Protein (Q01)

Catalog # H00010525-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human HYOU1 partial ORF ( NP_006380, 901 a.a. - 999 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	EVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEPISEPEKVETGSEPGDTEPLELGPGAEPEQKEQSTGQKRPLKNDL
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.63
<b>Interspecies Antigen Sequence</b>	Mouse (93); Rat (93)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — HYOU1

Entrez GeneID [10525](#)

GeneBank Accession# [NM\\_006389](#)

Protein Accession# [NP\\_006380](#)

Gene Name HYOU1

Gene Alias DKFZp686N08236, FLJ94899, FLJ97572, Grp170, HSP12A, ORP150

Gene Description hypoxia up-regulated 1

Omim ID [601746](#)

Gene Ontology [Hyperlink](#)

**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. [provided by RefSeq]

**Other Designations** 150 kDa oxygen-regulated protein|glucose-regulated protein 170|oxygen regulated protein (150kD)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)