

# Recombinant Human IF2B2 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP50445

Size: 10ug, 100ug

Protein Name: Insulin-like growth factor 2 mRNA-binding protein 2 (IGF2 mRNA-binding protein 2) (IMP-2) (Hepatocellular carcinoma autoantigen p62) (IGF-II mRNA-binding protein 2) (VICKZ family member 2)

Synonym: IGF2BP2, IMP2, VICKZ2

UniProt ID: Q9Y6M1

UniProt Link: [www.uniprot.org/uniprotkb/Q9Y6M1/entry](http://www.uniprot.org/uniprotkb/Q9Y6M1/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 599 AA

Molecular Weight: 66 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MMNKLYIGNLSPAVTADDLRQLFGDRKLPLAGQVLLKSGYAFVDYPDQNWAIETLSGKVELHGKI  
MEVDYSVSKKLRSRKIQIRNIPPHLQWEVLDGLLAQYGTVENVEQVNTDTETAVVNVTYATREEAKIA  
MEKLSGHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQGHAPGGTSQARQIDFPLRILVPTQ  
FVGAIIIGKEGLTIKNITKQTQSRVDIHRKENSAGAAEKPVTIHATPEGTSEACRMILEIMQKEADETKLAE  
EIPLKILAHNGLVGRIGKEGRNLKKIEHETGKITISSLQDLSIYNPERTITVKGTVEACASAEIEMKKL  
REAFENDMLAVNQANLIPGLNLSALGIFSTGLSVLSPAGPRGAPPAAPYHPFTTHSGYFSSLYPH  
HQFGPFPHHHSYPEQEIVNLFIPTQAVGAIIGKKGAHIKQLARFAGASIKIAPAEGPDVSERMMIITGPP  
EAQFKAQGRIFGKLKEENFFNPKEEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNLTSAEVIVPRDQT  
PDENEEVIVRIIGHFFASQTAQRKIREIVQQVKQQEQKYPQGVASQRSK

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant Insulin-like growth factor 2 mRNA-binding protein 2 (IGF2 mRNA-binding protein 2) (IMP-2) (Hepatocellular carcinoma autoantigen p62) (IGF-II mRNA-binding protein 2) (VICKZ family member 2) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** RNA-binding factor that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcript 'caging' into mRNPs allows mRNA transport and transient storage. It also modulates the rate and location at which target transcripts encounter the translational apparatus and shields them from endonuclease attacks or microRNA-mediated degradation (By similarity). Preferentially binds to N6-methyladenosine (m6A)-containing mRNAs and increases their stability (PubMed:29476152). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs (PubMed:9891060). Binding is isoform-specific. Binds to beta-actin/ACTB and MYC transcripts. Increases MYC mRNA stability by binding to the coding region instability determinant (CRD) and binding is enhanced by m6A-modification of the CRD (PubMed:29476152).

**Subcellular Localization:** Nucleus. Cytoplasm. Cytoplasm, P-body . Cytoplasm, Stress granule .  
Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Localizes at the connecting piece and the tail of the spermatozoa. In response to cellular stress, such as oxidative stress, recruited to stress granules.

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.