

Product datasheet for TP301833L

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

EIF3S2 (EIF3I) (NM_003757) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human eukaryotic translation initiation factor 3, subunit I (EIF3I), 1 mg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC201833 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MKPILLQGHERSITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTYMGHTGAVWCVDADWDTKHVLTG SADNSCRLWDCETGKQLALLKTNSAVRTCGFDFGGNIIMFSTDKQMGYQCFVSFFDLRDPSQIDNNEPYM KIPCNDSKITSAVWGPLGECIIAGHESGELNQYSAKSGEVLVNVKEHSRQINDIQLSRDMTMFVTASKDN TAKLFDSTTLEHQKTFRTERPVNSAALSPNYDHVVLGGGQEAMDVTTTSTRIGKFEARFFHLAFEEEFGR

VKGHFGPINSVAFHPDGKSYSSGGEDGYVRIHYFDPQYFEFEFEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 36.3 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

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: NP 003748

Locus ID: 8668



EIF3S2 (EIF3I) (NM_003757) Human Recombinant Protein - TP301833L

UniProt ID: <u>Q13347</u>, <u>Q5U0F4</u>

RefSeq Size: 1458 Cytogenetics: 1p35.2 RefSeq ORF: 975

Synonyms: elF3-beta; elF3-p36; ElF3S2; PRO2242; TRIP-1; TRIP1

Summary: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required

for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation

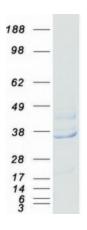
complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and

scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of

RNA stem-loop binding to exert either translational activation or repression

(PubMed:25849773).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified EIF3I protein (Cat# [TP301833]). The protein was produced from HEK293T cells transfected with EIF3I cDNA clone (Cat# [RC201833]) using MegaTran 2.0 (Cat# [TT210002]).