

Product datasheet for TR316827

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EIF3B Human shRNA Plasmid Kit (Locus ID 8662)

Product data:

Product Type: shRNA Plasmids

Product Name: EIF3B Human shRNA Plasmid Kit (Locus ID 8662)

Locus ID: 8662

Synonyms: EIF3-ETA; EIF3-P110; EIF3-P116; EIF3S9; PRT1

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: EIF3B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

8662). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 001037283, NM 003751, NM 182712, NM 001037283.1, NM 003751.1, NM 003751.2,

NM 003751.3, NM 182712.1, BC001173, BC110865, BC110865.1, BC009986, BM556863,

NM 001362792, NM 001362793, NM 001362791, NM 003751.4

UniProt ID: P55884

Summary: RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex,

which is required for several steps in the initiation of protein synthesis (PubMed:9388245, 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:9388245, 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

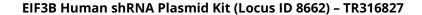
(PubMed:25849773).[UniProtKB/Swiss-Prot Function]



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shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).