

## Product datasheet for **TL313259**

### EIF2S2 Human shRNA Plasmid Kit (Locus ID 8894)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	EIF2S2 Human shRNA Plasmid Kit (Locus ID 8894)
Locus ID:	8894
Synonyms:	eIF-2-beta; EIF2; EIF2B; EIF2beta; PPP1R67
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	EIF2S2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 8894). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001316363</a> , <a href="#">NM_001316364</a> , <a href="#">NM_003908</a> , <a href="#">NM_003908.1</a> , <a href="#">NM_003908.3</a> , <a href="#">NM_003908.4</a> , <a href="#">BC000934</a> , <a href="#">BC000934.2</a> , <a href="#">BC000461</a> , <a href="#">BC007888</a> , <a href="#">BC070316</a> , <a href="#">BC107588</a> , <a href="#">NM_003908.5</a>
UniProt ID:	<a href="#">P20042</a>
Summary:	Eukaryotic translation initiation factor 2 (EIF-2) functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA and binding to a 40S ribosomal subunit. EIF-2 is composed of three subunits, alpha, beta, and gamma, with the protein encoded by this gene representing the beta subunit. The beta subunit catalyzes the exchange of GDP for GTP, which recycles the EIF-2 complex for another round of initiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .


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**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](mailto: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).