

Product datasheet for **TL313260V**

eIF2 alpha (EIF2S1) Human shRNA Lentiviral Particle (Locus ID 1965)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	eIF2 alpha (EIF2S1) Human shRNA Lentiviral Particle (Locus ID 1965)
Locus ID:	1965
Synonyms:	EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	EIF2S1 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	NM_004094 , NM_004094.1 , NM_004094.2 , NM_004094.3 , NM_004094.4 , BC002513 , BC002513.2 , NM_004094.5
UniProt ID:	P05198
Summary:	The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010]
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 .

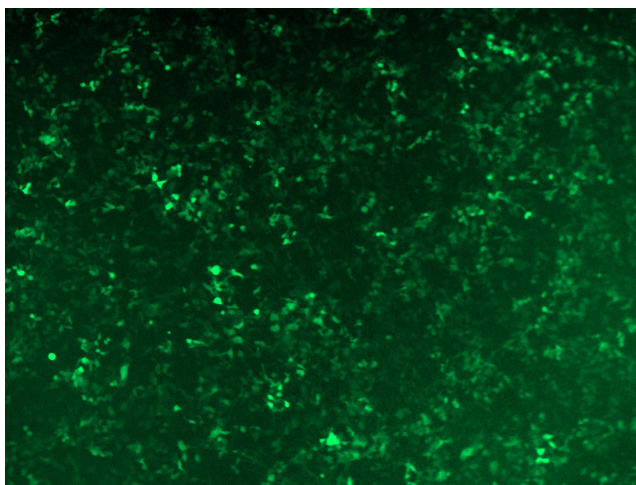


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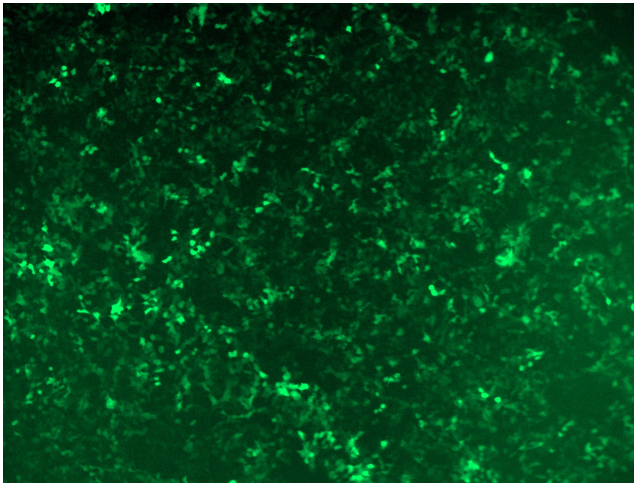
**Performance
Guaranteed:**

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.

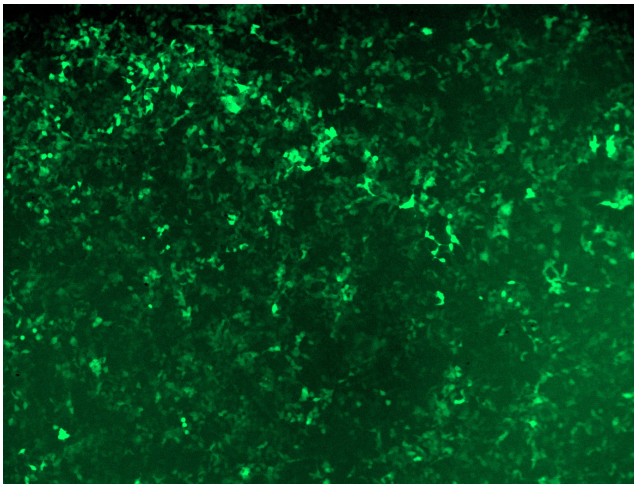
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

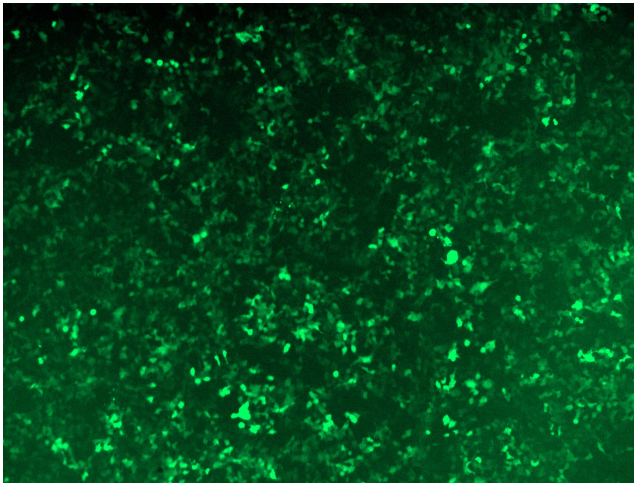
GFP signal was observed under microscope at 48 hours after transduction of TL313260A virus into HEK293 cells. TL313260A virus was prepared using lenti-shRNA TL313260A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL313260B virus into HEK293 cells. TL313260B virus was prepared using lenti-shRNA TL313260B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313260C] virus into HEK293 cells. [TL313260C] virus was prepared using lenti-shRNA [TL313260C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313260D] virus into HEK293 cells. [TL313260D] virus was prepared using lenti-shRNA [TL313260D] and [TR30037] packaging kit.