

## Product datasheet for **TR510658**

### Eif4e Mouse shRNA Plasmid (Locus ID 13684)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Eif4e Mouse shRNA Plasmid (Locus ID 13684)
Locus ID:	13684
Synonyms:	EG668879; eIF-4; eIF-4E; Eif4e-ps; If4; If4e
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Eif4e - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 13684). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC010759</a> , <a href="#">BC085087</a> , <a href="#">NM_007917</a> , <a href="#">NM_007917.1</a> , <a href="#">NM_007917.2</a> , <a href="#">NM_007917.3</a> , <a href="#">NM_007917.4</a> , <a href="#">BC010759.1</a>
UniProt ID:	<a href="#">P63073</a>
Summary:	This gene encodes a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. It has also been associated with autism spectrum disorders. Consistently, knockout of this gene results in increased translation of neuroligins, postsynaptic proteins linked to autism spectrum disorders. Pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 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).