

## Product datasheet for **TG311010**

### Optineurin (OPTN) Human shRNA Plasmid Kit (Locus ID 10133)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Optineurin (OPTN) Human shRNA Plasmid Kit (Locus ID 10133)
Locus ID:	10133
Synonyms:	ALS12; FIP2; GLC1E; HIP7; HYPL; NRP; TFIIIA-INTP
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	OPTN - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 10133). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">NM_001008211</a> , <a href="#">NM_001008212</a> , <a href="#">NM_001008213</a> , <a href="#">NM_021980</a> , <a href="#">NM_001008211.1</a> , <a href="#">NM_001008212.1</a> , <a href="#">NM_021980.1</a> , <a href="#">NM_021980.2</a> , <a href="#">NM_021980.3</a> , <a href="#">NM_021980.4</a> , <a href="#">NM_001008213.1</a> , <a href="#">BC013876</a> , <a href="#">BC013876.2</a> , <a href="#">BC032762</a> , <a href="#">NM_001008212.2</a>
UniProt ID:	<a href="#">Q96CV9</a>
Summary:	This gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
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).