

## Product datasheet for **TR311169**

### NISCH Human shRNA Plasmid Kit (Locus ID 11188)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	NISCH Human shRNA Plasmid Kit (Locus ID 11188)
Locus ID:	11188
Synonyms:	HIRAS; I-1; IR1; IRAS
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NISCH - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 11188). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001276293</a> , <a href="#">NM_001276294</a> , <a href="#">NM_007184</a> , <a href="#">NM_007184.1</a> , <a href="#">NM_007184.2</a> , <a href="#">NM_007184.3</a> , <a href="#">NM_001276294.1</a> , <a href="#">NM_001276293.1</a> , <a href="#">BC038102</a> , <a href="#">BC038102.2</a> , <a href="#">BC050552</a> , <a href="#">BC054494</a> , <a href="#">BC056900</a> , <a href="#">NM_007184.4</a>
UniProt ID:	<a href="#">Q9Y2I1</a>
Summary:	This gene encodes a nonadrenergic imidazoline-1 receptor protein that localizes to the cytosol and anchors to the inner layer of the plasma membrane. The orthologous mouse protein has been shown to influence cytoskeletal organization and cell migration by binding to alpha-5-beta-1 integrin. In humans, this protein has been shown to bind to the adapter insulin receptor substrate 4 (IRS4) to mediate translocation of alpha-5 integrin from the cell membrane to endosomes. Expression of this protein was reduced in human breast cancers while its overexpression reduced tumor growth and metastasis; possibly by limiting the expression of alpha-5 integrin. In human cardiac tissue, this gene was found to affect cell growth and death while in neural tissue it affected neuronal growth and differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. Some isoforms lack the expected C-terminal domains of a functional imidazoline receptor. [provided by RefSeq, Jan 2013]



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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](mailto: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](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).