

## Product datasheet for **TR307180**

### KIDINS220 Human shRNA Plasmid Kit (Locus ID 57498)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	KIDINS220 Human shRNA Plasmid Kit (Locus ID 57498)
Locus ID:	57498
Synonyms:	ARMS; SINO
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	KIDINS220 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 57498). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_020738</a> , <a href="#">NM_001348729</a> , <a href="#">NM_001348731</a> , <a href="#">NM_001348732</a> , <a href="#">NM_001348734</a> , <a href="#">NM_001348735</a> , <a href="#">NM_001348736</a> , <a href="#">NM_001348738</a> , <a href="#">NM_001348739</a> , <a href="#">NM_001348740</a> , <a href="#">NM_001348741</a> , <a href="#">NM_001348742</a> , <a href="#">NM_001348743</a> , <a href="#">NM_001348745</a> , <a href="#">NR_145964</a> , <a href="#">NR_145965</a> , <a href="#">NM_020738.1</a> , <a href="#">NM_020738.2</a> , <a href="#">NM_020738.3</a> , <a href="#">BC039409</a> , <a href="#">BC094714</a> , <a href="#">BC130610</a> , <a href="#">NM_020738.4</a>
UniProt ID:	<a href="#">Q9ULH0</a>
Summary:	This gene encodes a transmembrane protein that is preferentially expressed in the nervous system where it controls neuronal cell survival, differentiation into axons and dendrites, and synaptic plasticity. The encoded protein interacts with membrane receptors, cytosolic signaling components, and cytoskeletal proteins, serving as a scaffold that mediates crosstalk between the neurotrophin pathway and several other intracellular signaling pathways. Aberrant expression of this gene is associated with the onset of various neuropsychiatric disorders and neurodegenerative diseases, including Alzheimer's disease. Naturally occurring mutations in this gene are associated with a syndrome characterized by spastic paraplegia, intellectual disability, nystagmus and obesity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]
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> .



[View online »](#)

**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).