

## Product datasheet for **TR303016**

### NCALD Human shRNA Plasmid Kit (Locus ID 83988)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	NCALD Human shRNA Plasmid Kit (Locus ID 83988)
Locus ID:	83988
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NCALD - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 83988). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001040624</a> , <a href="#">NM_001040625</a> , <a href="#">NM_001040626</a> , <a href="#">NM_001040627</a> , <a href="#">NM_001040628</a> , <a href="#">NM_001040629</a> , <a href="#">NM_001040630</a> , <a href="#">NM_032041</a> , <a href="#">NM_001040630.1</a> , <a href="#">NM_001040628.1</a> , <a href="#">NM_001040625.1</a> , <a href="#">NM_001040626.1</a> , <a href="#">NM_032041.1</a> , <a href="#">NM_032041.2</a> , <a href="#">NM_001040629.1</a> , <a href="#">NM_001040627.1</a> , <a href="#">NM_001040624.1</a> , <a href="#">BC036098</a> , <a href="#">BC036098.1</a> , <a href="#">BC001131</a> , <a href="#">BC009949</a> , <a href="#">BC033319</a> , <a href="#">BC063428</a> , <a href="#">BM681731</a> , <a href="#">NM_032041.3</a>
UniProt ID:	<a href="#">P61601</a>
Summary:	This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. [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> .



[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).