

## Product datasheet for **TL514115**

### Syt1 Mouse shRNA Plasmid (Locus ID 20979)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Syt1 Mouse shRNA Plasmid (Locus ID 20979)
Locus ID:	20979
Synonyms:	AW124717; G630098F17Rik; Syt1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Syt1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 20979). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">BC042519</a> , <a href="#">NM_001252341</a> , <a href="#">NM_001252342</a> , <a href="#">NM_009306</a> , <a href="#">NM_001358502</a> , <a href="#">NM_001358506</a> , <a href="#">NM_009306.1</a> , <a href="#">NM_009306.2</a> , <a href="#">NM_009306.3</a> , <a href="#">NM_001252342.1</a> , <a href="#">NM_001252341.1</a> , <a href="#">BC028277</a> , <a href="#">BC048187</a> , <a href="#">BC058423</a> , <a href="#">NM_001358501</a> , <a href="#">NM_001358503</a> , <a href="#">NM_001358504</a>
UniProt ID:	<a href="#">P46096</a>
Summary:	Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity). [UniProtKB/Swiss-Prot Function]
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).