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Product datasheet for TR301277

Synaptotagmin 14 (SYT14) Human shRNA Plasmid Kit (Locus ID 255928)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Synaptotagmin 14 (SYT14) Human shRNA Plasmid Kit (Locus ID 255928)
Locus ID:	255928
Synonyms:	SCAR11; sytXIV
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SYT14 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 255928). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001146261, NM_001146262, NM_001146264, NM_001256006, NM_153262, NR_027458, NR_027459, NM_153262.1, NM_153262.2, NM_153262.3, NM_001146262.1, NM_001146262.2, NM_001146264.1, NM_001146264.2, NM_001146261.1, NM_001146261.2, NM_001256006.1, BC130323, BC144154, BC144155, BC144157, NM_001146264.3, NM_153262.4, NM_001146262.3
UniProt ID:	Q8NB59
Summary:	This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate membrane trafficking in synaptic transmission. The encoded protein is a calcium-independent synaptotagmin. Mutations in this gene are a cause of autosomal recessive spinocerebellar ataxia-11 (SCAR11), and a t(1;3) translocation of this gene has been associated with neurodevelopmental abnormalities. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 4. [provided by RefSeq, Dec 2011]
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. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).