

## Product datasheet for **TR316805**

### Synapsin III (SYN3) Human shRNA Plasmid Kit (Locus ID 8224)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Synapsin III (SYN3) Human shRNA Plasmid Kit (Locus ID 8224)
Locus ID:	8224
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SYN3 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 8224). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001135774</a> , <a href="#">NM_003490</a> , <a href="#">NM_133632</a> , <a href="#">NM_133633</a> , <a href="#">NM_003490.1</a> , <a href="#">NM_003490.2</a> , <a href="#">NM_003490.3</a> , <a href="#">NM_133633.1</a> , <a href="#">NM_133633.2</a> , <a href="#">NM_001135774.1</a> , <a href="#">NM_133632.1</a> , <a href="#">BC117460</a> , <a href="#">BC143874</a> , <a href="#">BC075065</a> , <a href="#">BC075066</a> , <a href="#">NM_001369908</a> , <a href="#">NM_001369909</a> , <a href="#">NM_001369907</a> , <a href="#">NM_001369910</a> , <a href="#">NM_133633.3</a> , <a href="#">NM_001135774.2</a> , <a href="#">NM_003490.4</a>
UniProt ID:	<a href="#">O14994</a>
Summary:	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. The protein encoded by this gene shares the synapsin family domain model, with domains A, C, and E exhibiting the highest degree of conservation. The protein contains a unique domain J, located between domains C and E. Based on this gene's localization to 22q12.3, a possible schizophrenia susceptibility locus, and the established neurobiological roles of the synapsins, this family member may represent a candidate gene for schizophrenia. The TIMP3 gene is located within an intron of this gene and is transcribed in the opposite direction. Alternative splicing of this gene results in multiple splice variants that encode different isoforms. [provided by RefSeq, Oct 2008]



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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).