

## Product datasheet for **TL307463**

### Synaptopodin 2 (SYNPO2) Human shRNA Plasmid Kit (Locus ID 171024)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Synaptopodin 2 (SYNPO2) Human shRNA Plasmid Kit (Locus ID 171024)
Locus ID:	171024
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SYNPO2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 171024). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001128933</a> , <a href="#">NM_001128934</a> , <a href="#">NM_001286754</a> , <a href="#">NM_001286755</a> , <a href="#">NM_133477</a> , <a href="#">NM_133477.1</a> , <a href="#">NM_133477.2</a> , <a href="#">NM_001128933.1</a> , <a href="#">NM_001128933.2</a> , <a href="#">NM_001128934.1</a> , <a href="#">NM_001128934.2</a> , <a href="#">NM_001286755.1</a> , <a href="#">NM_001286754.1</a> , <a href="#">BC136256</a> , <a href="#">BC150629</a> , <a href="#">NM_001128934.3</a> , <a href="#">NM_001128933.3</a> , <a href="#">NM_001286754.2</a>
UniProt ID:	<a href="#">Q9UMS6</a>
Summary:	Has an actin-binding and actin-bundling activity. Can induce the formation of F-actin networks in an isoform-specific manner (PubMed:24005909, PubMed:23225103). At the sarcomeric Z lines is proposed to act as adapter protein that links nascent myofibers to the sarcolemma via ZYX and may play a role in early assembly and stabilization of the Z lines. Involved in autophagosome formation. May play a role in chaperone-assisted selective autophagy (CASA) involved in Z lines maintenance in striated muscle under mechanical tension; may link the client-processing CASA chaperone machinery to a membrane-tethering and fusion complex providing autophagosome membranes (By similarity). Involved in regulation of cell migration (PubMed:22915763, PubMed:25883213). May be a tumor suppressor (PubMed:16885336).[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> .



[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).