

Product datasheet for **TL309602**

Sterol carrier protein 2 (SCP2) Human shRNA Plasmid Kit (Locus ID 6342)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Sterol carrier protein 2 (SCP2) Human shRNA Plasmid Kit (Locus ID 6342)
Locus ID:	6342
Synonyms:	NLTP; NSL-TP; SCOX; SCP-2; SCP-CHI; SCP-X; SCPX
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SCP2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 6342). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001007098 , NM_001007099 , NM_001007100 , NM_001007250 , NM_001193599 , NM_001193600 , NM_001193617 , NM_002979 , NM_001330587 , NM_001007098.1 , NM_001007098.2 , NM_001007099.1 , NM_001007099.2 , NM_001007250.1 , NM_001007250.2 , NM_001007100.1 , NM_001007100.2 , NM_002979.1 , NM_002979.2 , NM_002979.3 , NM_002979.4 , NM_001193617.1 , NM_001193600.1 , NM_001193599.1 , BC067108 , BC067108.1 , BC005911 , NM_001193617.2 , NM_001193599.2 , NM_001193600.2 , NM_001007099.3 , NM_001007100.3 , NM_002979.5
UniProt ID:	P22307



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- Summary:** This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms.[provided by RefSeq, Aug 2010]
- 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](#).
- 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).