

Product datasheet for **TR309573**

SEC31A Human shRNA Plasmid Kit (Locus ID 22872)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SEC31A Human shRNA Plasmid Kit (Locus ID 22872)
Locus ID:	22872
Synonyms:	ABP125; ABP130; HSPC275; HSPC334; NEDSOSB; SEC31L1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SEC31A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 22872). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001077206 , NM_001077207 , NM_001077208 , NM_001191049 , NM_001300744 , NM_001300745 , NM_001318119 , NM_001318120 , NM_014933 , NM_016211 , NM_001077206.1 , NM_001077206.2 , NM_001077206.3 , NM_014933.1 , NM_014933.2 , NM_014933.3 , NM_016211.1 , NM_016211.2 , NM_016211.3 , NM_016211.4 , NM_001077208.1 , NM_001077208.2 , NM_001077208.3 , NM_001077207.1 , NM_001077207.2 , NM_001191049.1 , NM_001191049.2 , NM_001300744.1 , NM_001300744.2 , NM_001300745.1 , NM_001300745.2 , BC084583 , BC084583.1 , BC117221 , BC031292 , BC039834 , BC047883 , BC143489 , BC143491 , BC143492 , BM677531
UniProt ID:	O94979
Summary:	The protein encoded by this gene shares similarity with the yeast Sec31 protein, and is a component of the outer layer of the coat protein complex II (COPII). The encoded protein is involved in vesicle budding from the endoplasmic reticulum (ER) and contains multiple WD repeats near the N-terminus and a proline-rich region in the C-terminal half. It associates with the protein encoded by the SEC13 homolog, nuclear pore and COPII coat complex component (SEC13), and is required for ER-Golgi transport. Monoubiquitylation of this protein by CUL3-KLHL12 was found to regulate the size of COPII coats to accommodate unusually shaped cargo. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]



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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. 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).