

## Product datasheet for **TL300560**

### VPS16 Human shRNA Plasmid Kit (Locus ID 64601)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	VPS16 Human shRNA Plasmid Kit (Locus ID 64601)
Locus ID:	64601
Synonyms:	DYT30; hVPS16
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	VPS16 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 64601). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_022575</a> , <a href="#">NM_080413</a> , <a href="#">NM_080414</a> , <a href="#">NM_022575.1</a> , <a href="#">NM_022575.2</a> , <a href="#">NM_022575.3</a> , <a href="#">NM_080413.1</a> , <a href="#">NM_080413.2</a> , <a href="#">NM_080414.1</a> , <a href="#">BC012422</a> , <a href="#">BC021291</a> , <a href="#">BC030571</a> , <a href="#">BC044662</a> , <a href="#">BC064406</a> , <a href="#">BC073959</a> , <a href="#">BC126431</a> , <a href="#">BM468030</a> , <a href="#">NM_022575.4</a>
UniProt ID:	<a href="#">Q9H269</a>
Summary:	Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human homolog of yeast class C Vps16 protein. The mammalian class C Vps proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]
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> .



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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](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).