

## Product datasheet for **TR305039**

### DENND1B Human shRNA Plasmid Kit (Locus ID 163486)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	DENND1B Human shRNA Plasmid Kit (Locus ID 163486)
Locus ID:	163486
Synonyms:	C1orf218; DENN/MADD domain containing 1B; DKFZp54700715; FAM31B; family with sequence similarity 31, member B; FLJ20054; FLJ21179; FLJ33888; MGC27044; MGC103810; RP11-53I24.2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	DENND1B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 163486). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001142795</a> , <a href="#">NM_001195215</a> , <a href="#">NM_001195216</a> , <a href="#">NM_001300858</a> , <a href="#">NM_144977</a> , <a href="#">NR_125340</a> , <a href="#">NM_144977.1</a> , <a href="#">NM_144977.2</a> , <a href="#">NM_144977.3</a> , <a href="#">NM_001195215.1</a> , <a href="#">NM_001300858.1</a> , <a href="#">NM_001142795.1</a> , <a href="#">NM_001195216.1</a> , <a href="#">BC022561</a> , <a href="#">BC022561.1</a> , <a href="#">BC074735</a> , <a href="#">BC074735.2</a> , <a href="#">BC063877</a> , <a href="#">BC016588</a> , <a href="#">BC063456</a> , <a href="#">NM_001300858.2</a> , <a href="#">NM_144977.5</a> , <a href="#">NM_001195215.2</a>
UniProt ID:	<a href="#">Q6P3S1</a>
Summary:	Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connecdenn family, such as DENND1B, function as guanine nucleotide exchange factors (GEFs) for the early endosomal small GTPase RAB35 (MIM 604199) and bind to clathrin and clathrin adaptor protein-2 (AP2; see MIM 601024). Thus, connecdenns link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 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 <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).