

Product datasheet for **TR308412**

VNN2 Human shRNA Plasmid Kit (Locus ID 8875)

Product data:

Product Type:	shRNA Plasmids
Product Name:	VNN2 Human shRNA Plasmid Kit (Locus ID 8875)
Locus ID:	8875
Synonyms:	FOAP-4; GPI-80
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	VNN2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 8875). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001242350 , NM_004665 , NM_078488 , NR_034173 , NR_034174 , NR_034175 , NR_110143 , NR_110144 , NR_110145 , NR_110146 , NM_078488.1 , NM_078488.2 , NM_004665.1 , NM_004665.2 , NM_004665.3 , NM_004665.4 , NM_001242350.1 , NM_001242350.2 , BC126145 , BC064641 , BC126147 , BC144064 , BM153251 , NM_004665.5
UniProt ID:	O95498
Summary:	This gene product is a member of the Vanin family of proteins that share extensive sequence similarity with each other, and also with biotinidase. The family includes secreted and membrane-associated proteins, a few of which have been reported to participate in hematopoietic cell trafficking. No biotinidase activity has been demonstrated for any of the vanin proteins, however, they possess pantetheinase activity, which may play a role in oxidative-stress response. The encoded protein is a GPI-anchored cell surface molecule that plays a role in transendothelial migration of neutrophils. This gene lies in close proximity to, and in same transcriptional orientation as two other vanin genes on chromosome 6q23-q24. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]
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 .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).