

Product datasheet for TR301776

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SEMA6D Human shRNA Plasmid Kit (Locus ID 80031)

Product data:

Product Type: shRNA Plasmids

Product Name: SEMA6D Human shRNA Plasmid Kit (Locus ID 80031)

Locus ID: 80031

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection: Format:

Retroviral plasmids

Components: SEMA6D - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

80031). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 001198999, NM 020858, NM 024966, NM 153616, NM 153617, NM 153618, NM 153619,

NM 001358351, NM 001358352, NM 024966.1, NM 024966.2, NM 153618.1, NM 153617.1,

NM 153619.1, NM 153616.1, NM 020858.1, NM 001198999.1, BC004330, BC150253,

NM 153617.2, NM 001198999.2, NM 024966.3, NM 153616.2, NM 020858.2, NM 153618.2

UniProt ID: Q8NFY4

Summary: Semaphorins are a large family, including both secreted and membrane associated proteins,

many of which have been implicated as inhibitors or chemorepellents in axon pathfinding, fasciculation and branching, and target selection. All semaphorins possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Additional sequence motifs C-terminal to the semaphorin

domain allow classification into distinct subfamilies. Results demonstrate that

transmembrane semaphorins, like the secreted ones, can act as repulsive axon guidance cues. This gene encodes a class 6 vertebrate transmembrane semaphorin that demonstrates alternative splicing. Several transcript variants have been identified and expression of the distinct encoded isoforms is thought to be regulated in a tissue- and development-dependent

manner. [provided by RefSeq, 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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







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).