

## Product datasheet for TR516798

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## Sema4d Mouse shRNA Plasmid (Locus ID 20354)

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** Sema4d Mouse shRNA Plasmid (Locus ID 20354)

Locus ID: 20354

CD100; coll-4; Semacl2; Semaj; Semcl2 Synonyms:

pRS (TR20003) Vector:

E. coli Selection: Ampicillin Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Sema4d - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

20354). 5µg purified plasmid DNA per construct

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

BC049780, NM 001281880, NM 013660, NM 013660.1, NM 013660.3, NM 013660.4, RefSeq:

NM 001281880.1, BC027681, NM 013660.5, NM 001281880.2

**UniProt ID:** 009126

**Summary:** Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell

> signaling (By similarity). Regulates GABAergic synapse development (PubMed:23699507, PubMed:29981480). Promotes the development of inhibitory synapses in a PLXNB1-

dependent manner (PubMed:23699507, PubMed:29981480). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (By similarity). Promotes the migration of cerebellar granule cells (PubMed:17554007). Plays a role in the immune system; induces Bcells to aggregate and improves their viability (in vitro) (By similarity). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-

AKT pathway (By similarity).[UniProtKB/Swiss-Prot Function]

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).