

**Specifications:**

Gene:	mSema3d
Accession:	NP_083158
Insert size:	2347bp
Concentration:	10µg at 0.2µg/µL

**Description**

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

**Preparation and Storage**

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

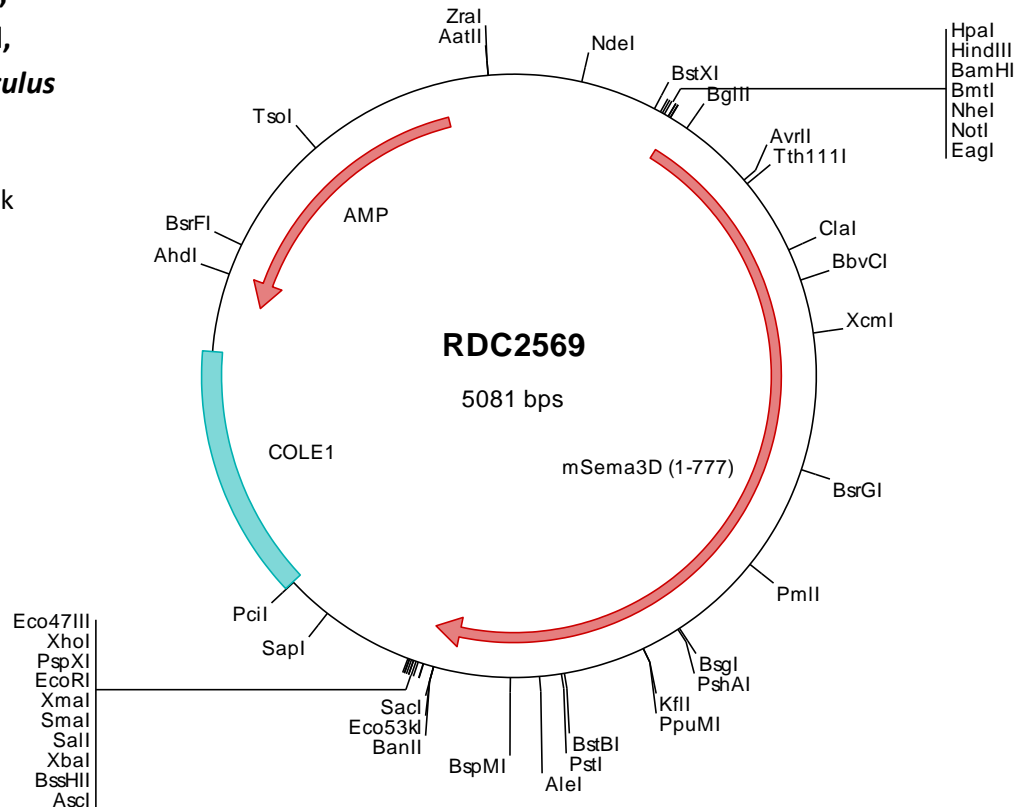
## mSemaphorin 3D cDNA Plasmid

Sema3d sema domain,  
immunoglobulin domain (Ig),  
short basic domain, secreted,  
(semaphorin) 3D [ *Mus musculus*  
(house mouse) ]

Also known as: 4631426B19Rik

**Summary:**

Sema3D is a member of the semaphorin III family of secreted signaling proteins that are involved in axon guidance during neuronal development. It contains an N-terminal Sema domain, an immunoglobulin like domain and a C-terminal basic domain. Sema3D binds neuropilin and plays an important role in cardiovascular development.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2569 Plasmid DNA Sequence

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1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgg tcagcggggtg ttggcggggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtg accatagcg gtgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
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501 cctttttcaat gcttggatga tgttaatcat gacggtgtctc tttctctcgt tcaactgaaac gtctaaacaa aatattccaa gactcaagct aaactacaaa
601 gacttgtctgc tttcaaacac ctgtatcccc tttttggggt catcagaagg attggatttc cagactcttc ttttggatga ggagaggggc atactgtctc
701 taggagccaa agaccatgta ttccctgtca gtctggttga cttgaaacag aatttttaaga agatttattg gcctgtctga aaagaacgag tggagctatg
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> RDC2569 Translated Insert Sequence

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1 mnvtkdenpr srsqdlhlfh awmmlimtlv flpvtetskq niplrkltyk dlllntcip flgssegldf qtlldleerg illlgakdhv flslvldlnk
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601 ifgiefnstf lecipksqqa svewyiqrsq dehreelkpd eriiktdygl lirlslqkks gmyyckageh tfihtivklf lnvieneqme ntqraeyqeg
701 qvkdllaesr lrykdyiqil sspnfsldqy cegmwykekr rnrnkgspkw khmqemkkkr nrrhhrlde lqrsvat

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