

Specifications:

Gene:	mSema4D
Accession:	NP_038688
Insert size:	2599bp
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.

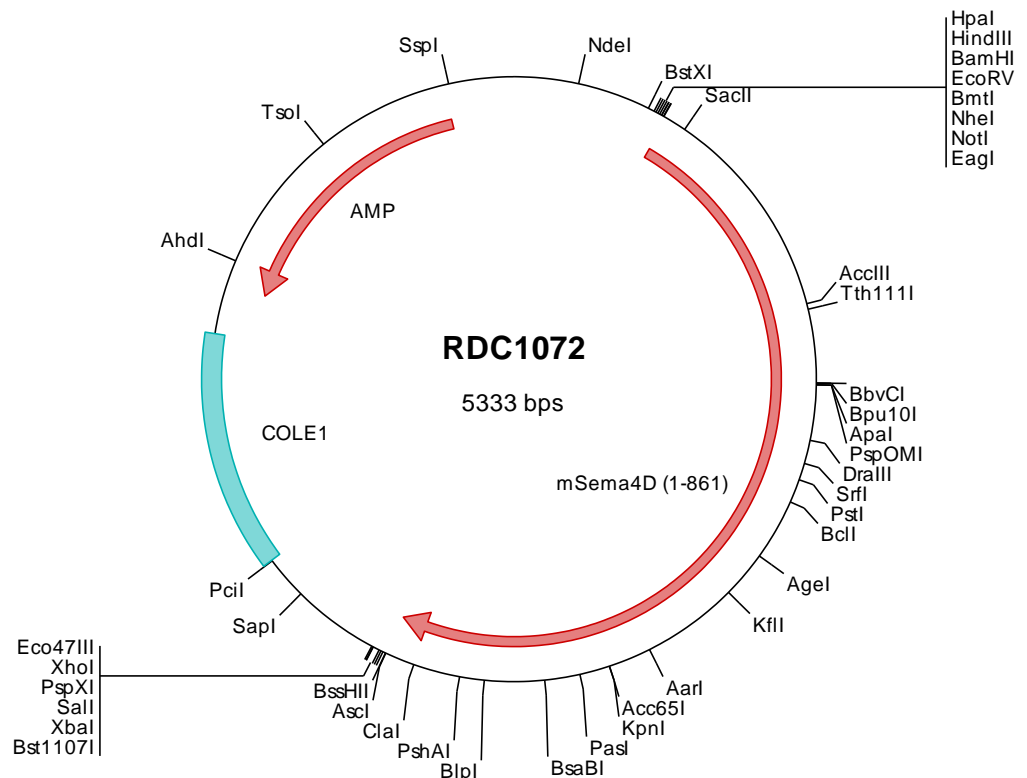
mSemaphorin 4D cDNA Plasmid

Sema4d sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [*Mus musculus* (house mouse)]

Also known as: CD100; Semaj; Semcl2; coll-4; Semacl2

Summary:

Sema4D is a widely expressed transmembrane glycoprotein of the Class 4 Semaphorin family. It is a receptor for PLXNB1 and PLXNB2, which are important for cell-cell signaling. Sema4D promotes reorganization of the actin cytoskeleton and plays a role in axonal growth cone guidance in the developing central nervous system. Sema4D also plays a role in the immune system by inducing B-cells to aggregate. Sema4D is proangiogenic when expressed by tumor-associated macrophages.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1072 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301 taagccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggcgccacc atgaggatgt gtgccccctg tagggggctg ttcttggccc tgggtgtagt
501 gttgagaacc gctcggtgcat ttgcacctgt gccctggctc accctgggaac atggagaggt aggtctgggt cagtttcaca agccaggcat ctttaactac
601 tggccttgc tgatgagtga ggacaaagac actctgtatg tagggcccg ggaagcagtc ttctcagtga atgcgctgaa catctctgag aagcaaatg
701 aggtatattg gaaggtctct gaagacaaaa aatccaagtg tgcagagaag gggaaatcaa agcagacgga atgcctaaac tacattcgag tactacagcc
801 actaagcagc acttccctct atgtgtgtgg gaccaatgcg tccagccca cctgtgacca cctgaacttg acatcctcoa agtttctggg gaaaaagtga
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5301 ataaaaatag gcgtatcac aggccctttc gtc

> RDC1072 Translated Insert Sequence

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101 gkskqtecin yirvlqplss tslyvcgtna fqptcdhlnl tsfkflgkse dgkgrcfdp ahsytsvmvg gelysgtsyn flgsepiisr nsshspirte
201 yaipwlneps fvfadvigks pdgpegeddk vyffftvevs eyefvfklni prvarvckgd gglrltlqkk wtsflkarli cskpdsglvf nilqdvfvlr
301 apglkepvfy avftpqlnnv glsavcaytl atveavfsrg kymqsatveq shtkwrvyng pvptprpgc idsearaany tsslndpdk lqfvkdhplm
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501 afcekhgsce dcvlardpyc awspaikacv tlhqeassr gwiqdmsgdt sscldkskes fnqhffkhgg taelkcfqks nlarvvwkfq ngelkaaspk
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701 sssgtscepk mvintvpqlh sektvylkss dnrlmlslll fifvflfclf syncykygyp gqclkfrrsal llgkktpked fsdleqsvke tlvepgsfsq
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