*h*Semaphorin 4D VersaClone cDNA

Catalog Number: RDC1549

Specifications:

Gene:	*h*SEMA4D
Accession:	NP_006369
Insert size:	2602bp
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

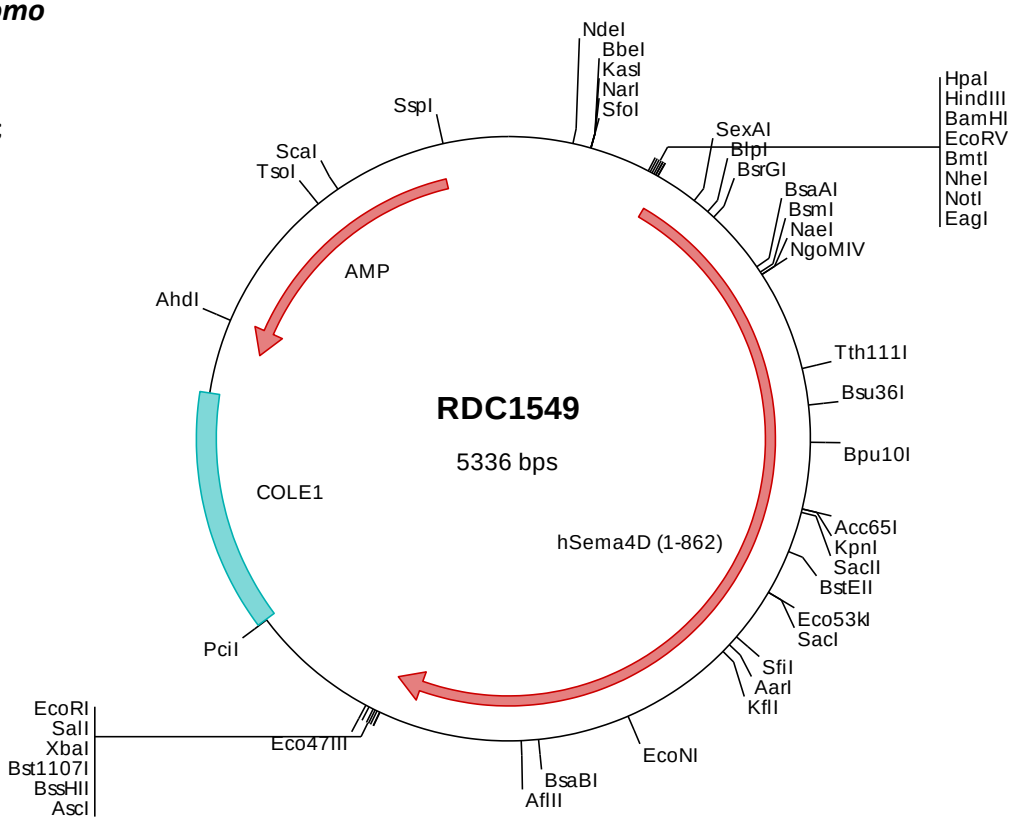
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Semaphorin 4D cDNA Plasmid

SEMA4D semaphorin 4D [*Homo sapiens* (human)]

Also known as: CD100; SEMAJ; coll-4; C9orf164; M-sema-G

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

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> RDC1549 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 601  tcagccttgc tgctgagcga ggacaaggac accttgtaca taggtgcccg ggaggcggtc ttcgctgtga acgcactcaa catctccgag aagcagcatg
 701  aggtgtattg gaaggtctca gaagacaaaa aagcaaaatg tgcagaaaag gggaaatcaa aacagacaga gtgcctcaac tacatccggg tgctgcagcc
 801  actcagcgcc acttcccttt acgtgtgtgg gaccaacgca ttccagccgg cctgtgacca cctgaactta acatccttta agtttctggg gaaaaatgaa
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1801  gccatcagcc tcgagcacgc tgttcacatc atcgaggaga cccagctctt ccaggacttt gagccagtcc agaccctgct gctgtcttca aagaagggca
1901  acaggtttgt ctatgctggc tctaactcgg gcgtggtcca ggccccgctg gccttctgtg ggaagcacgg cacctgcgag gactgtgtgc tggcgcggga
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2101  tctgtgtgcc cggataaaag taaaggaagt taccggcagc atttttttcaa gcacggtggc acagcggaac tgaaatgctc ccaaaaatcc aacctggccc
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2301  agacagtggg gtgtaccagt gcctgtcaga ggagagggtt aagaacaaaa cggtcttcca agtggtcgcc aagcacgtcc tggaagtgaa ggtggttcca
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2801  accgtgagca gagcctgaag gagacgttag tagagccagg gagcttctcc cagcagaatg gggagcaccc caagccagcc ctggacaccg gctatgagac
2901  cgagcaagac accatcacca gcaaagtccc cacggatagg gaggactcac agaggatcga cgacctttct gccagggaca agccctttga cgtcaagtgt
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> RDC1549 Translated Insert Sequence

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 201  yaipwlneps fvfadvirks pdspdgeddr vyfffevsv eyefvfrvli priarvckgd qgglrtlqkk wtsflkarli csrpdsglvf nvlrdvfvlr
 301  spglkvpvfy alftpqlnnv glsavcaynl staeevfshg kymqsttveq shtkwvryng pvpkprpgac idsearaany tsslnlpdkt lqfvkdhplm
 401  ddsvtpidnr prlikkdvny tqivvdrtqa ldgtvydvmf vstdrgalhk aislehavhi ieetqlfqdf epvqtlllss kkgnrfvyag snsgvvqapl
 501  afcgkhgtce dcvlardpyc awspptatcv alhqtespsr gliqemsgda svcpdkskgs yrqhffkhgg taelkcsqks nlarvfwkfq ngvlkaespk
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 701  paptgtscep kivintvpql hsektmylks sdnrllmslf lfffvlflcl ffyncykgyl prqclkfrsa lligkkkpks dfcdreqslk etlvepgsfs
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