*h*Semaphorin 4A VersaClone cDNA

Catalog Number: RDC1493

Specifications:

Gene:	*h*SEMA4A
Accession:	NP_071762
Insert size:	2299bp
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.

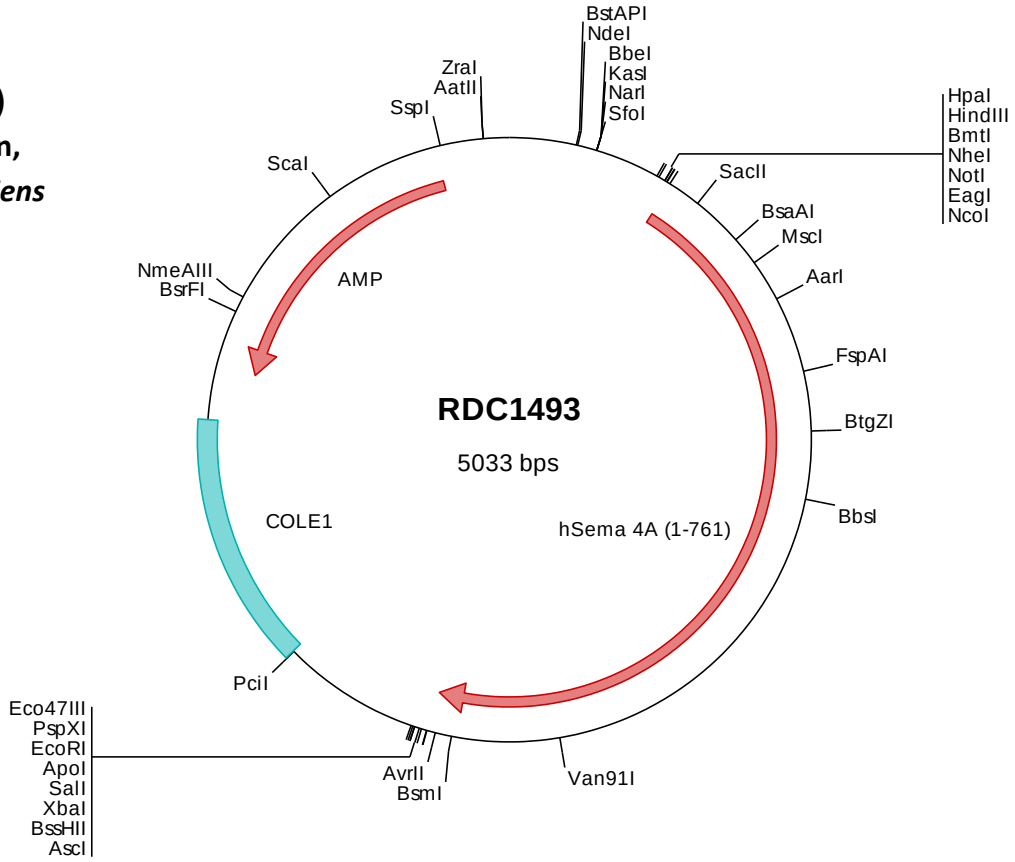
Preparation and Storage

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 4A cDNA Plasmid

SEMA4A sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A [*Homo sapiens* (human)]

Also known as: RP35; SEMB; SEMAB; CORD10



Summary:
Semaphorins are a family of secreted and membrane-bound proteins, known to control axonal pathfinding. SEMA4A induces T cell activation in the immune system and is an important regulator of Th2-driven lung pathophysiology. It also induces growth cone collapse in hippocampal neurons. Alternatively spliced transcripts encoding different proteins have been described.

FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC1493 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggccctcc cagccctggg cctggacccc tggagcctcc tgggcctttt
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 601  agggcactta gcttcttcca ccagaagggc ctccaggatt ttgacactct gctcctgagt ggtgatggaa atactctcta cgtgggggct cgagaagcca
 701  ttctggcctt ggatatccag gatccagggg tccccaggct aaagaacatg ataccgtggc cagccagtga cagaaaaaag agtgaatgtg cctttaagaa
 801  gaagagcaat gagacacagt gtttcaactt catccgtgtc ctggtttctt acaatgtcac ccatctctac acctgcggca ccttcgcctt cagccctgct
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1601  cctctgataa ggccctgacc ttcatgaagg accatttcct gatggatgag caagtggtgg ggacgcccct gctggtgaaa tctggcgtgg agtatacacg
1701  gcttgcagtg gagacagccc agggccttga tgggcacagc catcttgtca tgtacctggg aaccaccaca gggtcgctcc acaaggctgt ggtaagtggg
1801  gacagcagtg ctcatctggt ggaagagatt cagctgttcc ctgaccctga acctgttcgc aacctgcagc tggcccccac ccagggtgca gtgtttgtag
1901  gcttctcagg aggtgtctgg agggtgcccc gagccaactg tagtgtctat gagagctgtg tggactgtgt ccttgcccgg gacccccact gtgcctggga
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2701  gctgacaaca actgcctagg cactgaggta gcttaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt ctctagcttg
2801  gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa gcctggggtg
2901  cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg
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> RDC1493 Translated Insert Sequence

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 301  fnvirhavll padsptaphi yavftsqwqv ggtrssavca fslldiervf kgkykelnke tsrwttyrgp etnprpgscs vgpssdkalt fmkdhflmde
 401  qvvgtpllvk sgveytrlav etaqgldghs hlvmylgttt gslhkavvsg dssahlveei qlfpdpepvr nlqlaptqga vfvgfsggvw rvprancsvy
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