*p*Semaphorin 3A VersaClone cDNA

Catalog Number: RDC3349

Specifications:

Gene:	*p*SEMA3A
Accession:	XP_020919137.1
Insert size:	2332bp
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

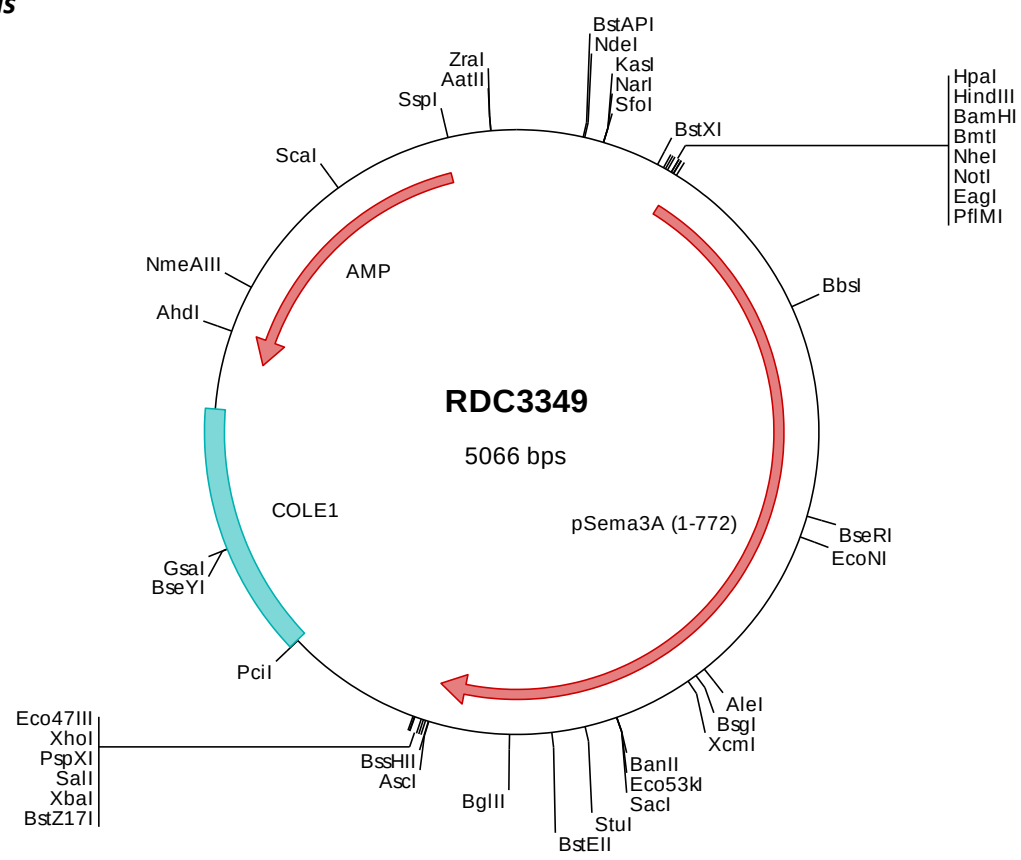
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*p*Semaphorin 3A cDNA Plasmid

SEMA3A semaphorin 3A [*Sus scrofa* (pig)]

Summary:

SEMA3A is one of six Class 3 secreted semaphorins which are potent chemorepellents that function in axon and/or vascular guidance during development. SEMA3A signaling is transduced by plexin A1-4, indirectly via neuropilin-1. SEMA3A activity is mediated by small GTPases that influence actin rearrangement and integrin activity. It is important in developmental organization of central and peripheral nerves, including those in heart, lung, kidneys, bones, teeth, and visual and olfactory systems.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

> RDC3349 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 atgggctggt tcagtaggat tgtttgtctt ttctggggag tattacttac
 501  tgcaagagca aactatcaaa atgggaagaa caatgtgcca aggctgaaat tatcttacaa agaaatgttg gaatccaaca atgtgatcac tttcaatggc
 601  ttggccaaca gctccagtta tcataccttc cttttggatg aggaacggag taggctctat gttggagcaa aggatcacat attttcattc aatctggtta
 701  atatcaagga ttttcaaaag atcgtgtggc ctgtatctta caccagaagg gatgaatgca agtgggctgg aaaggatatc ctgaaagaat gtgctaattt
 801  catcaaggtg cttaaggctt ataatcagac tcacttgtat gcctgtggaa ctggggcttt tcatccaatt tgcacctaca tagaaattgg acatcatcct
 901  gaggacaaca tttttaagct ggaagactca caattttgaaa atggccgtgg aaagagtcca tacgacccta aactgctgac agcatctctt ttaatagatg
1001  gagaattata ttctggaaca gcagctgatt ttatggggcg agactttgct atcttccgaa ctcttgggca ccaccacccc atcaggacag agcagcatga
1101  ttccaggtgg ctcaatgatc caaggttcat tagtgcccat ctcatcccag agagtgacaa ccctgaagat gacaaagtat atttttttctt ccgtgaaaat
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1301  caacattcct caaagctcgt cttatttgct cagtgccagg tccaaatggt attgacacac attttgatga attgcaggat gtatttctaa tgaattctaa
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1501  gtgttcctgg gtccctatgc tcacagagat ggtcctaact accagtgggt gccttatcaa ggaagagtgc cctacccacg accaggaact tgtcccagta
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1701  taaccggcca ataatgatca agactgatgt aaattatcag tttacacaaa ttgtagtaga tcgagtggat gcagaagatg gccagtatga tgtcatgttt
1801  attggaacag atgttgggac cgttcttaaa gtagtttcaa ttcctaagga gacttggcat gatttagaag aagttctgct ggaagaaatg acagtttttc
1901  gggaaccaac tactatttca gccatggagc tttccactaa gcagcaacaa ctatatgttg gctctgctgc gggggtggcg cagctccctt tacacagatg
2001  tgatatttac gggaaagcct gtgcagagtg ctgcctcgcc cgggacccat actgtgcctg ggatggctct tcatgctctc gctattttcc tactgcaaag
2101  agacgcacaa gacggcaaga tataagaaat ggagacccac tgactcactg ttcagactta caacaccacg ataatcaccg tggccacaac tttgaagaaa
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2301  gcgaaaagaa gagatcagag tggacgatca tatcatcagg acagaacaag gcctgttact gcgaagtcta caacggaaag attcaggcag ttacctctgt
2401  catgctgtgg aacatggatt catgcaaact cttcttaagg tgaccctgga agtcattgat acagagcatc tggaagaact tcttcataaa gatgatgatg
2501  gagatagctc taagaccaaa gaaatgtcca acagcatgac acctagccag aagatctggt acagagactt catgcagctc atcaaccacc ccaacctgaa
2601  cacaatggat gagttctgtg aacaagtttg gaaaagggac agaaaacagc gtcggcaaag gccaggacat acccaaggga acagtaacaa atggaaacac
2701  ttacaggaaa ataagaaatg tagaaacagg aggacccacg aatttgagag ggcacccagg agtgtctaaa ggcgcgccag tatactctag agtcgacacc
2801  cggggaattc ctcgagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac
2901  gagccggaag cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt cgggaaacct
3001  gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc gctgcgctcg
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3201  gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac aaaaatcgac gctcaagtca
3301  gaggtggcga aacccgacag gactataaag ataccaggcg tttcccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac
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3701  atctgcgctc tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cggtggtttt tttgtttgca
3801  agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac gaaaactcac gttaagggat
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> RDC3349 Translated Insert Sequence

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 101  deckwagkdi lkecanfikv lkaynqthly acgtgafhpi ctyieighhp ednifkleds hfengrgksp ydpklltasl lidgelysgt aadfmgrdfa
 201  ifrtlghhhp irteqhdsrw lndprfisah lipesdnped dkvyfffren aidgehtgka thariggick ndfgghrslv nkwttflkar licsvpgpng
 301  idthfdelqd vflmnskdpk npvvygvftt ssnifkgsav cmysmsdvrr vflgpyahrd gpnyqwvpyq grvpyprpgt cpsktfggfd stkdlpddvi
 401  tfarshpamy npvfpinnrp imiktdvnyq ftqivvdrvd aedgqydvmf igtdvgtvlk vvsipketwh dleevlleem tvfrepttis amelstkqqq
 501  lyvgsaagva qlplhrcdiy gkacaeccla rdpycawdgs scsryfptak rrtrrqdirn gdplthcsdl qhhdnhrghn feeriiygve nsstflecsp
 601  ksqralvywq fqrrneerke eirvddhiir teqglllrsl qrkdsgsylc havehgfmqt llkvtlevid tehleellhk dddgdssktk emsnsmtpsq
 701  kiwyrdfmql inhpnlntmd efceqvwkrd rkqrrqrpgh tqgnsnkwkh lqenkkcrnr rtheferapr sv
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