*h*Semaphorin 3B VersaClone cDNA

Catalog Number: RDC3023

Specifications:

Gene:	*h*SEMA3B
Accession:	NP_004627.1
Insert size:	2263bp
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

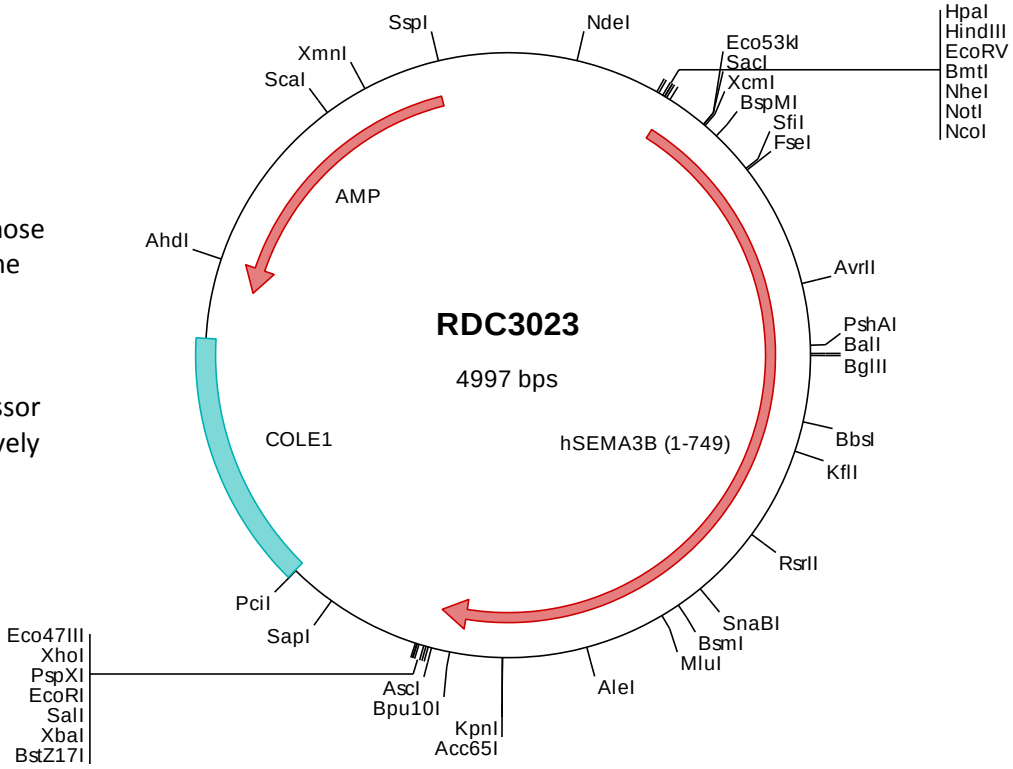
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Semaphorin 3B cDNA Plasmid

SEMA3B semaphorin 3B [*Homo sapiens* (human)]

Also known as: SemA; SEMA5; SEMAA; semaV; LUCA-1

Summary:
SEMA3B belongs to the class-3 semaphorin/collapsin family, whose members function in growth cone guidance during neuronal development. SEMA3B inhibits axonal extension and has been shown to act as a tumor suppressor by inducing apoptosis. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC3023 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 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 atgggacggg caggggctgc agccgtgatc ccaggactgg ccctgctctg
 501  ggcagtgggg ctggggagtg ccgctcccag ccccccacgc cttcggctct ccttccaaga gctccaggcc tggcatggtc tccagacttt cagcctggag
 601  cgaacctgct gctaccaggc cttgctggtg gatgaggagc gtggacgcct gtttgtgggt gccgagaacc atgtggcctc cctcaacctg gacaacatca
 701  gcaagcgggc caagaagctg gcctggccgg cccctgtgga atggcgagag gagtgcaact gggcagggaa ggacattggt actgagtgca tgaacttcgt
 801  gaagttgctg catgcctaca accgcaccca tttgctggcc tgtggcacgg gagccttcca cccaacctgt gcctttgtgg aagtgggcca ccgggcagag
 901  gagcccgtcc tccggctgga cccaggaagg atagaggatg gcaaggggaa gagtccttat gaccccaggc atcgggctgc ctccgtgctg gtgggggagg
1001  agctatactc aggggtggca gcagacctca tgggacgaga ctttaccatc tttcgcagcc tagggcaacg tccaagtctc cgaacagagc cacacgactc
1101  ccgctggctc aatgagccca agtttgtcaa ggtattttgg atcccggaga gcgagaaccc agacgacgac aaaatctact tcttctttcg tgagacggcg
1201  gtagaggcgg cgccggcact gggacgcctg tccgtgtccc gcgttggcca gatctgccgg aacgacgtgg gcggccagcg cagcctggtc aacaagtgga
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1601  cctttggcac cttcagttcc accaaggact tcccagacga tgtcatccag tttgcgcgga accacccccc catgtacaac tctgtcctgc ccactggggg
1701  gcgccctctt ttcctacaag ttggagccaa ttacaccttc actcaaattg ccgcggaccg ggttgcagcc gctgacggac actatgacgt cctcttcatt
1801  ggcacagacg ttggcacggt gctgaaggtg atctcggtcc ccaagggcag taggcccagc gcagaggggc tgctcctgga ggagctgcac gtgtttgagg
1901  actcggccgc tgtcaccagc atgcaaattt cttccaagag gcaccagctg tacgtagcct cgcggagcgc ggtggcccag atcgcgttgc accgctgcgc
2001  tgcccacggc cgcgtctgca ccgaatgctg tctggcgcgt gacccctact gcgcctggga cggggtcgcg tgcacgcgtt tccagcccag tgccaagagg
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2201  agggcagcag cgcctttctg gagtgtgagc cccgctcgct gcaggcgcgc gtggagtgga ctttccagcg cgcaggggtg acagcccaca cccaggtgct
2301  ggcagaggag cgcaccgagc gcaccgcccg gggactactg ctgcgcaggc tgcggcgccg ggactcgggc gtgtacttgt gcgccgccgt cgagcagggc
2401  tttacgcaac cgctgcgtcg cctgtcgctg cacgtgttga gtgctacgca ggccgaacga ctggcgcggg ccgaggaggc tgcgcccgcc gcgccgccgg
2501  gccccaaact ctggtaccgg gactttctgc agctggtgga gccgggcgga ggtggcagcg cgaactccct gcgcatgtgc cgcccgcagc ctgcgctgca
2601  gtcactgccc ctggagtcgc ggagaaaggg ccgtaaccgg aggacccacg cccctgagcc tcgcgctgag aggggaccga ggagcgcaac gcactggtaa
2701  aggcgcgcca gtatactcta gagtcgacac ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat
2801  tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta attgcgttgc
2901  gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc aacgcgcggg gagaggcggt ttgcgtattg ggcgctcttc
3001  cgcttcctcg ctcactgact cgctgcgctc ggtcgttcgg ctgcggcgag cggtatcagc tcactcaaag gcggtaatac ggttatccac agaatcaggg
3101  gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc cgccccctg
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3301  tcctgttccg accctgccgc ttaccggata cctgtccgcc tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta tctcagttcg
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3601  ctacggctac actagaagga cagtatttgg tatctgcgct ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaaacc
3701  accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat cttttctacg gggtctgacg
3801  ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa gttttaaatc
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4201  tagagtaagt agttcgccag ttaatagttt gcgcaacgtt gttgccattg ctacaggcat cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc
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> RDC3023 Translated Insert Sequence

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 101  ecnwagkdig tecmnfvkll haynrthlla cgtgafhptc afvevghrae epvlrldpgr iedgkgkspy dprhraasvl vgeelysgva adlmgrdfti
 201  frslgqrpsl rtephdsrwl nepkfvkvfw ipesenpddd kiyfffreta veaapalgrl svsrvgqicr ndvgggrslv nkwttflkar lvcsvpgveg
 301  dthfdqlqdv fllssrdhrt pllyavfsts ssifqgsavc vysmndvrra flgpfahkeg pmhqwvsyqg rvpyprpgmc psktfgtfss tkdfpddviq
 401  farnhplmyn svlptggrpl flqvganytf tqiaadrvaa adghydvlfi gtdvgtvlkv isvpkgsrps aeglleelh vfedsaavts mqisskrhql
 501  yvasrsavaq ialhrcaahg rvctecclar dpycawdgva ctrfqpsakr rfrrqdvrng dpstlcsgds srpallehkv fgvegssafl eceprslqar
 601  vewtfqragv tahtqvlaee rtertargll lrrlrrrdsg vylcaaveqg ftqplrrlsl hvlsatqaer laraeeaapa appgpklwyr dflqlvepgg
 701  ggsanslrmc rpqpalqslp lesrrkgrnr rthapeprae rgprsathw
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