*h*CRTAC1-B VersaClone cDNA

Catalog Number: RDC0979

Specifications:

Gene:	*h*CRTAC1
Accession:	NP_001193457
Insert size:	1951bp
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

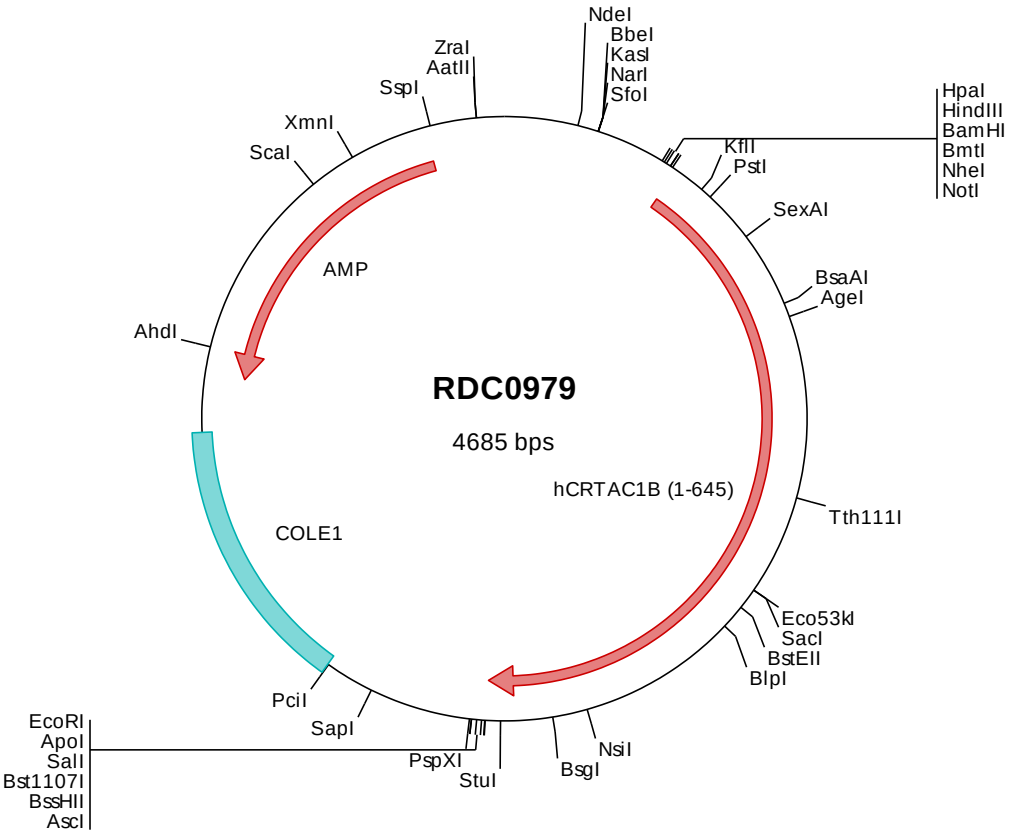
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CRTAC1-B cDNA Plasmid

CRTAC1 cartilage acidic protein 1 [*Homo sapiens* (human)]

Also known as: ASPIC; ASPIC1; CEP-68

Summary:
CRTAC1B is an alternatively spliced isoform of cartilage acidic protein 1 (CRTAC1). It has a substituted C-terminal region with a potential transmembrane segment. CRTAC1B is a glycosylated extracellular matrix protein that is expressed in select regions of the brain on neuronal growth cones and neurite shafts. An integrin-binding RGD motif is present in the human protein but absent in the mouse and rat proteins. CRTAC1B plays an important role in axonal bundling and formation of the lateral olfactory tract.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0979 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 atggctccga gcgctgaccc cggcatgtcc aggatgttac cgttcctgct
 501  gctgctctgg tttctgccca tcactgaggg gtcccagcgg gctgaaccca tgttcactgc agtcaccaac tcagttctgc ctcctgacta tgacagtaat
 601  cccacccagc tcaactatgg tgtggcagtt actgatgtgg accatgatgg ggactttgag atcgtcgtgg cggggtacaa tggacccaac ctggttctga
 701  agtatgaccg ggcccagaag cgactggtga acatcgcggt cgatgagcgc agctcaccct actacgcgct gcgggaccgg cagggaacg ccattggggt
 801  cacagcctgc gacatcgacg gggacggccg ggaggagatc tacttcctca acaccaataa tgccttctcg ggggtagcca cgtacaccga caagttgttc
 901  aagttccgca ataaccggtg ggaagacatc ctgagcgatg aggtcaacgt ggcccgtggt gtggccagcc tctttgccgg acgctctgtg gcctgtgtgg
1001  acagaaaggg ctctggacgc tactctatct acattgccaa ttacgcctac ggtaatgtgg gccctgatgc cctcattgaa atggaccctg aggccagtga
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1201  agcagtgcct cggatatctt ctgcgacaat gagaatgggc ctaacttcct tttccacaac cggggcgatg gcaccttttgt ggacgctgcg gccagtgctg
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1601  acggagaccc cctcatcgag gagctcaatc ccggcgacgc cttggagcct gagggccggg gcacaggggg tgtggtgacc gacttcgacg gagacgggat
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1801  cgcacccggt ttggggcctt tgccagggga gctaaggtcg tgctctacac caagaagagt ggggcccacc tgaggatcat cgacgggggc tcaggctacc
1901  tgtgtgagat ggagcccgtg gcacactttg gcctggggaa ggatgaagcc agcagtgtgg aggtgacgtg gccagatggc aagatggtga gccggaacgt
2001  ggccagcggg gagatgaact cagtgctgga gatcctctac ccccgggatg aggacacact tcaggaccca gccccactgg agtgtggcca aggattctcc
2101  cagcaggaaa atggccattg catggacacc aatgaatgca tccagttccc attcgtgtgc cctcgagaca agcccgtatg tgtcaacacc tatggaagct
2201  acaggtgccg gaccaacaag aagtgcagtc ggggctacga gcccaacgag gatggcacag cctgcgtggc tcaagtggcc tttttaggtg ggtattcttc
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2501  acaattccac acaacatacg agccggaagc ataaagtgta aagcctgggg tgcctaatga gtgagctaac tcacattaat tgcgttgcgc tcactgcccg
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2701  cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc actcaaaggc ggtaatacgg ttatccacag aatcagggga taacgcagga
2801  aagaacatgt gagcaaaagg ccagcaaaag gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc ataggctccg ccccctgac gagcatcaca
2901  aaaatcgacg ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt ttcccccctgg aagctccctc gtgcgctctc ctgttccgac
3001  cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgctttctca atgctcacgc tgtaggtatc tcagttcggt gtaggtcgtt
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> RDC0979 Translated Insert Sequence

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 201  gnvgpdalie mdpeasdlsr gilalrdvaa eagvskytgg rgvsvgpils ssasdifcdn engpnflfhn rgdgtfvdaa asagvddphq hgrgvaladf
 301  nrdgkvdivy gnwngphrly lqmsthgkvr frdiaspkfs mpspvrtvit adfdndqele iffnniayrs ssanrlfrvi rrehgdplie elnpgdalep
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 501  ssvevtwpdg kmvsrnvasg emnsvleily prdedtlqdp aplecgqgfs qqenghcmdt neciqfpfvc prdkpvcvnt ygsyrcrtnk kcsrgyepne
 601  dgtacvaqva flggyssaas riseplsras ylslglglcl qlyal
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