

Specifications:

Gene:	mCrtam
Accession:	AAI17717
Insert size:	1183bp
Concentration:	10µg at 0.2µg/µL

mCRTAM cDNA Plasmid

Crtam cytotoxic and regulatory T cell molecule [*Mus musculus* (house mouse)]

Summary:

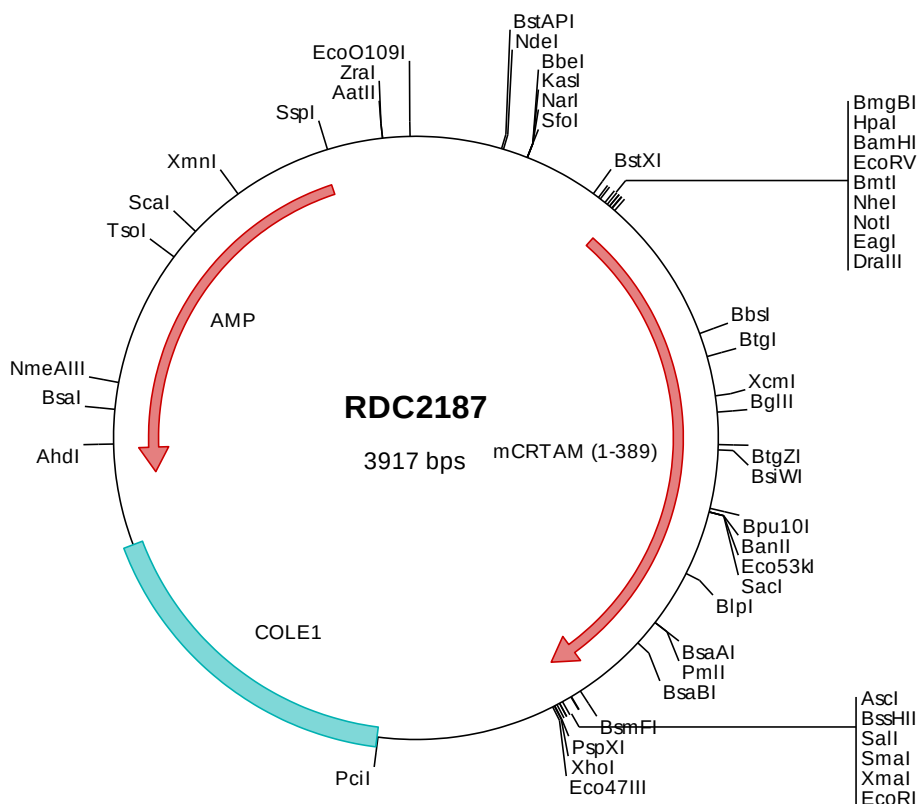
CRTAM is a nectin family member of the immunoglobulin superfamily that is expressed by activated CD8⁺ and NK T cells. CRTAM is found in spleen, thymus, small intestine, peripheral blood, and surprisingly, in brain where it is highly expressed by Purkinje cells of the cerebellum. The V-type Ig-like domain mediates interaction with the corresponding domain on another nectin family member, IGSF4. The high affinity of CRTAM/IGSF4 adhesion allows CRTAM to disrupt IGSF4 homotypic interactions.

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.



> RDC2187 Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgctct  gtaagcggat  gccgggagca  gacaagcccg
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcaccc  atgttggtgg  gagtctctcag  ttgtctgttc  tgggtgcggg  tgcaagcagc
501  cttttctgaaa  atggagacgg  tcacggtaga  ggaaggccaa  acgctcacct  taacgtgtgt  tactctctcag  acaaaaaacg  tctctctcca  gtggtctggc
601  cccctctgggt  tcaccatttt  tttaaaccag  catctctgct  taaaaagctc  caaataccag  cttctctcac  attcagctac  acaactctcc  attagtgtgt
701  ccaatgtaac  tctccgagag  gaaggtgtgt  atacatgctt  gcactacggg  agttctgtga  agacgaagca  agtgagagtg  accgtgttag  tgactccttt
801  ccagccaacc  gtggaagctt  tggttctcag  aaggcagaat  ggagagaaat  ctgttgtgct  gaaatgttcc  acagagagaa  gcaagccccc  gccacaaatc
901  acctggctgc  tgggggaagg  tctggagatc  tatggtgaac  tccaccatga  atttgaagct  gatgggaaaa  tatgtaacac  cagcagcagc  ctcctcgccc
1001  gcgcgtatgg  caaaaactca  accgtgcact  gcattatcca  gcacgagggc  ttgcacggga  gaaagctggt  tgcccccttc  cagtttgaag  atttggttgc
1101  agatcaagaa  acgacttcag  atgcccctga  cgagagctct  ctctctctcc  aagccctcca  gcagcccaca  agtacagtct  caatgatgga  aaattccagt
1201  ataccagaga  ctgacaagga  agagaaagaa  catgccactc  aagaccctgt  attgtccact  gaagccagtg  ctacagctac  aggactggcc  cggaggaaga
1301  gtggtatacc  gttgtaacg  ctggtgtcct  tctctatttt  catccttttc  atcctgttcc  agtctctcat  catgaagctg  cgtaaacgac  acgtggtatg
1401  gaagaagaa  agtgaaatct  cagagcaagc  tctagaagat  tacagatcaa  gatccacaaa  cgaggagaca  tcttcccagg  agaatagcag  ccaggctccc
1501  cagtctaaag  gttgcatgaa  ctacatcagc  cagttatact  cgggagccaa  aacaaagaag  agtgcccagc  actggaagct  cggaggcaag  cacagccgtg
1601  cctcggagga  tattgtgtaa  aggcgcggca  gtatactcta  gactcgacac  ccggggaatt  cctcgagcgc  tcgtctctag  cttggcgtaa  tcattggtcat
1701  agctgtttcc  tgtgtgaaat  tgttatccgc  tcacaattcc  acacaacata  cgagccggaa  gcataaagt  taaagcctgg  ggtgcctaatt  gagttagcta
1801  actcacatta  attgcgttgc  gctcactgcc  cgtcttccag  tcgggaaacc  tgtcgtgcca  gctgcattaa  tgaatcgccc  aacgcgcggg  gagaggcggg
1901  ttgcgtatgg  ggcgctcttc  cgtctcactc  cgtcgcgtcc  ggtcgttcgg  ggtcgttcgg  ctgcgcccag  cggtatcagc  tcactcaaa  gcggtaatatc
2001  ggttatccac  agaatacagg  gataacgcag  gaaagaacat  gtgagcaaaa  ggccagcaaa  aggccaggaa  ccgtaaaaag  gccgcgttgc  tggcgttttt
2101  ccataggtct  cgccccctg  acgagcatca  caaaaactga  cgctcaagtc  agaggtggcg  aaacccgaca  ggactataaa  gataccaggc  gtttccccct
2201  ggaagctccc  tcgtgcgtcc  tctgtttccg  accctgcgcg  ttaccggata  cctgtccgcc  tttctccctt  cgggaaagct  ggcgctttct  caatgctcac
2301  gctgttaggt  tctcagttcg  gtgtaggtcg  ttgcgtccaa  gctgggctgt  gtgcacgaac  cccccgttca  gcccgaccgc  tgccgcttat  ccggttaacta
2401  tcgtcttgag  tccaaccggg  taagacacga  cttatcgcca  ctggcagcag  ccaactgtaa  caggattagc  agagcgaggt  atgtaggcgg  tgctacagag
2501  ttcttgaaat  ggtggcctaa  ctacggctac  actagaagga  cagtatttgg  tatctgcgct  ctgctgaagc  cagttacctt  cggaaaaaga  gttggtagct
2601  cttgatccgg  caaacaacc  accgctggta  gcggtggttt  ttttgtttgc  aagcagcaga  ttacgcgcag  aaaaaaagga  tctcaagaag  atcctttgat
2701  cttttctacg  ggtctgacg  ctacgtggaa  cgaaaactca  cgttaaaggga  ttttggctat  gagattatca  aaaaggatct  tccactagat  ccttttaaat
2801  taaaaatgaa  gttttaaatc  aatctaaagt  atatatagat  aaacttggtc  tgacagttac  caatgcttaa  tcagtgaagg  acctatctca  gcgactctgc
2901  tatttctgtc  atccatagtt  gcctgactcc  ccgtcgtgta  gataactacg  atacgggag  gcttaccatc  tggccccagt  gctgcaatga  taccgcgaga
3001  cccacgctca  ccggtccag  atttatcagc  aataaaccag  ccagccggaa  gggccgagcg  cagaagtggg  cctgcaactt  tatccgcctc  catccagctc
3101  attaatgtgt  gccgggaagc  tagagtaagt  agttcgccag  ttaatagttt  gcgcaacggt  gttgcccatt  ctacaggcat  cgtggtgtca  cgctcgtcgt
3201  ttggtatggc  ttcattcagc  tccggttccc  aacgatcaag  gcgagttaca  tgatccccc  tgttgtgcaa  aaaagcgggt  agctccttcg  gtccctccgat
3301  cgttgtcaga  agtaagtgg  ccgcagtggt  atcactcatg  gttatggcag  cactgcataa  ttctcttact  gtcatgccat  ccgtaagatg  cttttctgtg
3401  actggtgagt  actcaaccaa  gtcattctga  gaatagtgt  tgccggcgacc  gactgtctct  tgcccgcgct  caatacggga  taataccgcg  ccacatagca
3501  gaactttaaa  agtgctcatc  attgaaaaac  gttcttcggg  gcgaaaaact  tcaaggaatc  taccgctgtt  gagatccagt  tcgatgtaac  ccactcgtgc
3601  acccaactga  tcttcagcat  cttttacttt  caccagcgtt  totgggtgag  caaaaacagg  aaggcaaaat  gccgcaaaaa  agggaataag  gcgcacacgg
3701  aaatgttgaa  tactcatact  cttccttttt  caatattatt  gaagcattta  tcagggttat  tgtctcatga  gcggatacat  atttgaatgt  atttagaaaa
3801  ataaacaaat  aggggttccc  cgcacatttc  cccgaaaagt  gccacctgac  gtctaagaaa  ccattattat  catgacatta  acctataaaa  ataggcgtat
3901  cacgaggccc  tttcgtc

```

> RDC2187 Translated Insert Sequence

```

1  mwwgvslslf  wvpvqaafk  metvtveegq  tltltcvtsq  tknvsllqla  psgftiflnq  hpalksskyq  llhsatqls  isvsnvtlre  egvytclhyg
101  ssvkttkqrv  tvlvtvpfqt  vealvlrrqn  geksvlkc  terskpppq  twllgeglei  ygelhhefea  dgkicntsst  liaraygkns  tvhchihqeg
201  lhrgrklvap  qfedlvadqe  ttdapeqss  lssgalqgpt  stvsmmenss  ipetdkeeke  hatqdpqlst  easaghtgla  rrksqgilllt  lvsflilfilf
301  iivqlfimkl  rkahvvwkke  seiseqales  yrsrsnneet  ssqenssqap  qskrcmnyit  glysgaktkk  saqhkwlggk  hsrvpesiv

```