*m*BTN2A2 VersaClone cDNA

Catalog Number: RDC0839

Specifications:

Gene:	*m*BTN2A2
Accession:	NP_787952
Insert size:	1558bp
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

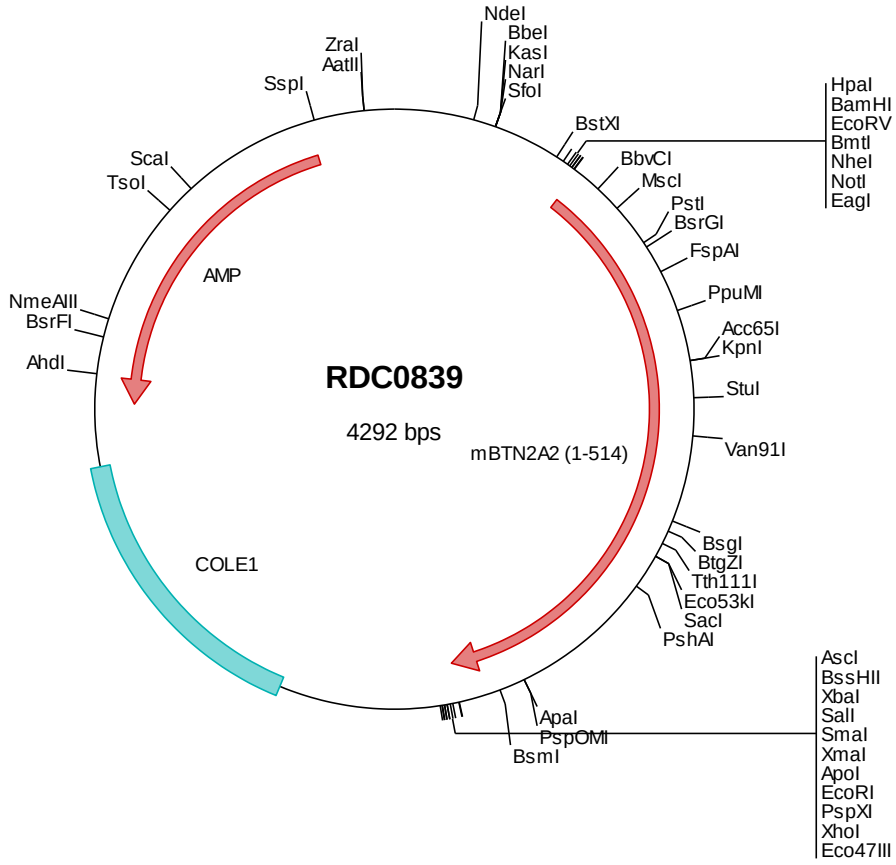
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*BTN2A2 cDNA Plasmid

Btn2a2 butyrophilin, subfamily 2, member A2 [*Mus musculus* (house mouse)]

Also known as: Btn2

Summary:
BTN2A2 is a type I receptor glycoprotein involved in lipid, fatty-acid and sterol metabolism. It may inhibit the proliferation of activated CD4 and CD8 T-cells. Several alternatively spliced transcript variants encoding different proteins have been described for BTN2A2.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0839 Plasmid DNA Sequence

```
   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 atggagccta caacttccct gcgttcttgc ccgatagcct cccttctctt
 501  cttcttggtc ctcagcctgt ttgtgctggt ctcagcccag tttactgtca taggaccagc tgagcccatc ctggccatgg taggagagaa taccacacta
 601  cactgccacc tgtcaccaga gagaaatgcc gaagagatgg aggtgcggtg gttccggtgg cgtttcttcc ctgcagtgct ggtgtacaga ggccatcaag
 701  agagaccaga ggagcagatg gtggcatacc gaggaagaac caccttcatg cgcacagaca tcagcaaggg aagagttgcg ctcattatcc acaatgtcac
 801  agcctatgac aatggcatct actgctgtta cttccaggaa ggcaggtcct atgaccaggc aaccatgaag cttatggtgg caagccttgg ctctgagcca
 901  cttattaaaa tgaagacact tgaggatggg agcatcttgc tagagtgcac atctgaaggg tggtacccag agccccgagc tgtgtggaga gacccctatg
1001  atgaagttgt acctgccctg gaggaggagt atacagctga cagagaaggc ctcttcacag tcaccatgac tataatcatc agggactgct ctgtgaggaa
1101  catgacctgc tctgtcaata acactctgct cagccaggag gtggaaagtg tgattctcat tccagaatcc ttcgtgccca gccttcctct gtggatggtg
1201  gctgtggctg tcactctgcc tgtagtaatg ctgattctcc tcacatctgg aagcatctgc cttgtcaaga aacaccgcag gaagaaatct attctgtcag
1301  ctgaaaaaga agccgaatat gaagagaagg aagctgcacg gcaacttcaa gaggaactgc gatggagacg aaccctctta catgctgctg acgtggtcct
1401  ggacccagat acagctcatc ctgagctctt cctgtcagat gaccagagaa gtgtaatacg aggctcttcg aggcagagtg tgcctgacaa ccctgagaga
1501  tttgactgcc gtccatgtgt cctgggcagg gaaagcttct cctcagggaa gcattactgg gaggtggagg tggaaaatgt aatggtgtgg gccattggtg
1601  tttgtagaga cagcgtggaa aggaaagggg aggccctgtt ggttcctcag aatggcttct ggaccctgga gatgtttgga agccagtatc gagccctgtc
1701  ctccccagaa aagatcatac ctctgaaaga gcgtcttcac cgtatagctg tcttcctgga ctgtgagggt ggagatattt ctttctacaa catgagagac
1801  agatcacaca tttacacatg tcctcctgtg actttcactg ggcccctgag acccttcttt aggcttggtt ctgatgacag tcccctgttc atctgtccag
1901  cattcacagg ggcacaggga gttacaatac ctgagggtgg cttattccta tataagacaa gaccaatttc tcagagcctt gtaaggaagc cataaaggcg
2001  cgccagtata ctctagagtc gacacccggg gaattcctcg agcgctcgtc tctagcttgg cgtaatcatg gtcatagctg tttcctgtgt gaaattgtta
2101  tccgctcaca attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg agctaactca cattaattgc gttgcgctca
2201  ctgcccgctt tccagtcggg aaacctgtcg tgccagctgc attaatgaat cggccaacgc gcggggagag gcggtttgcg tattgggcgc tcttccgctt
2301  cctcgctcac tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta tcagctcact caaaggcggt aatacggtta tccacagaat cagggataa
2401  cgcaggaaag aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta aaaaggccgc gttgctggcg ttttccata ggctccgccc ccctgacgag
2501  catcacaaaa atcgacgctc aagtcagagg tggcgaaacc cgacaggact ataaagatac caggcgtttc cccctggaag ctccctcgtg cgctctcctg
2601  ttccgaccct gccgcttacc ggatacctgt ccgcctttct cccttcggga agcgtggcgc tttctcaatg ctcacgctgt aggtatctca gttcggtgta
2701  ggtcgttcgc tccaagctgg gctgtgtgca cgaaccccc gttcagcccg accgctgcgc cttatccggt aactatcgtc ttgagtccaa cccggtaaga
2801  cacgacttat cgccactggc agcagccact ggtaacagga ttagcagagc gaggtatgta ggcggtgcta cagagttctt gaagtggtgg cctaactacg
2901  gctacactag aaggacagta tttggtatct gcgctctgct gaagccagtt accttcggaa aaagagttgg tagctcttga tccggcaaac aaaccaccgc
3001  tggtagcggt ggttttttg tttgcaagca gcagattacg cgcagaaaaa aaggatctca agaagatcct ttgatctttt ctacggggtc tgacgctcag
3101  tggaacgaaa actcacgtta agggattttg gtcatgagat tatcaaaaag gatcttcacc tagatccttt taaattaaaa atgaagtttt aaatcaatct
3201  aaagtatata tgagtaaact tggtctgaca gttaccaatg cttaatcagt gaggcaccta tctcagcgat ctgtctattt cgttcatcca tagttgcctg
3301  actccccgtc gtgtagataa ctacgatacg ggagggctta ccatctggcc ccagtgctgc aatgataccg cgagacccac gctcaccggc tccagattta
3401  tcagcaataa accagccagc cggaagggcc gagcgcagaa gtggtcctgc aactttatcc gcctccatcc agtctattaa ttgttgccgg gaagctagag
3501  taagtagttc gccagttaat agtttgcgca acgttgttgc cattgctaca ggcatcgtgg tgtcacgctc gtcgtttggt atggcttcat tcagctccgg
3601  ttcccaacga tcaaggcgag ttacatgatc ccccatgttg tgcaaaaaag cggttagctc cttcggtcct ccgatcgttg tcagaagtaa gttggccgca
3701  gtgttatcac tcatggttat ggcagcactg cataattctc ttactgtcat gccatccgta agatgctttt ctgtgactgg tgagtactca accaagtcat
3801  tctgagaata gtgtatgcgg cgaccgagtt gctcttgccc ggcgtcaata cgggataata ccgcgccaca tagcagaact ttaaaagtgc tcatcattgg
3901  aaaacgttct tcggggcgaa aactctcaag gatcttaccg ctgttgagat ccagttcgat gtaacccact cgtgcaccca actgatcttc agcatctttt
4001  actttcacca gcgtttctgg gtgagcaaaa acaggaaggc aaaatgccgc aaaaaaggga ataagggcga cacggaaatg ttgaatactc atactcttcc
4101  tttttcaata ttattgaagc atttatcagg gttattgtct catgagcgga tacatatttg aatgtattta gaaaaataaa caaatagggg ttccgcgcac
4201  atttccccga aaagtgccac ctgacgtcta agaaaccatt attatcatga cattaaccta taaaaatagg cgtatcacga ggccctttcg tc
```

> RDC0839 Translated Insert Sequence

```
   1  mepttslrsc piasllfflv lslfvlvsaq ftvigpaepi lamvgenttl hchlsperna eemevrwfrw rffpavlvyr ghqerpeeqm vayrgrttfm
 101  rtdiskgrva liihnvtayd ngiyccyfqe grsydqatmk lmvaslgsep likmktledg sillectseg wypepravwr dpydevvpal eeeytadreg
 201  lftvtmtiii rdcsvrnmtc svnntllsqe vesvilipes fvpslplwmv avavtlpvvm lilltsgsic lvkkhrrkks ilsaekeaey eekeaarqlq
 301  eelrwrrtll haadvvldpd tahpelflsd dqrsvirgss rqsvpdnper fdcrpcvlgr esfssgkhyw evevenvmvw aigvcrdsve rkgeallvpq
 401  ngfwtlemfg sqyralsspe kiiplkerlh riavfldceg gdisfynmrd rshiytcppv tftgplrpff rlgsddsplf icpaftgaqg vtipegglfl
 501  yktrpisqsl vrkp
```