*m*MS4A4B VersaClone cDNA

Catalog Number: RDC0234

Specifications:

Gene:	*m*MS4A4B
Accession:	NP_068364
Insert size:	694bp
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

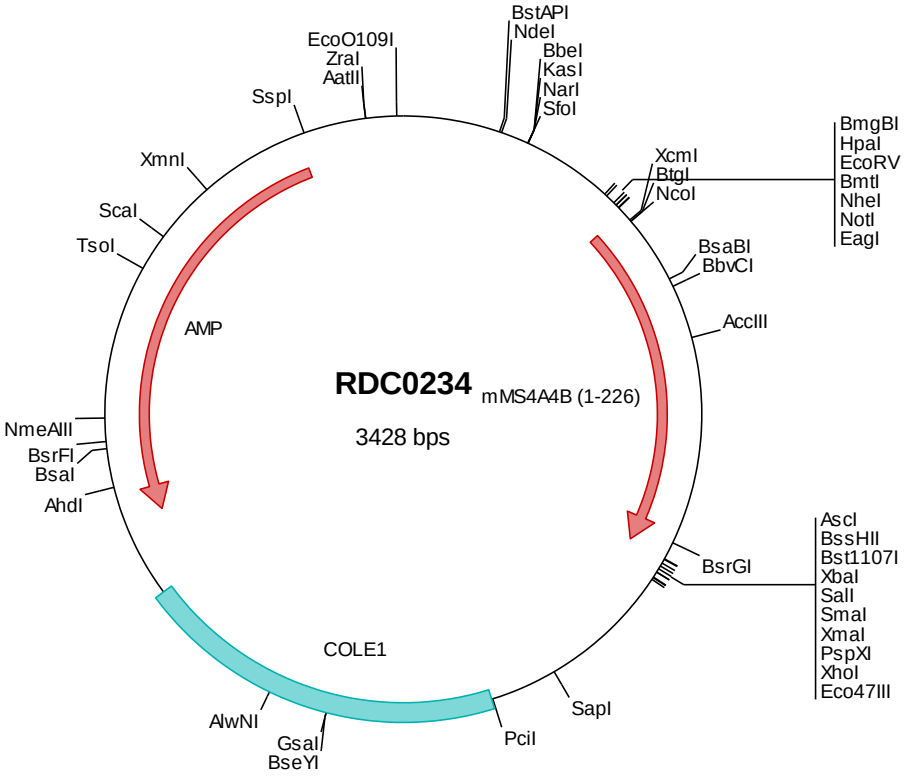
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*MS4A4B cDNA Plasmid

Ms4a4b membrane-spanning 4-domains, subfamily A, member 4B [*Mus musculus*]

Also known as: Ly116; Chandra; AI463180

Summary:
MS4A4B, also called Chandra, is a member of the MS4A family of four-transmembrane proteins that includes CD20. It is expressed in immature $CD4^-CD8^-$ T-cells, and later in mature Th1 but not Th2 cells. MS4A4B is enriched in lipid rafts of activated T-cells, and overexpression enhances Th1 cytokine expression, indicating a possible role in cell signaling. Mouse MS4A4B shares 69% overall amino acid (aa) identity with rat, and low (< 42%) aa identity with human MS4A4A.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0234 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 atgcaaggac aggaacagac caccatggca gtggttcctg gagttgctgt
 501  gccttcaaag aattctgtta tgacatcaca aatgtggaat gagaagaaag agaaattctt gaaggggaa cccaaagtcc ttggggtttt acaagtgatg
 601  attgctatca taaacctcag cttaggaata ataattttga caactttatt ttctgaacta cccacttcag tgatgttaat ggtcccaatt tggggatcaa
 701  taatgttcat tgtctccgga tccctgtcca ttgcagcagg agtgacacct acaaaatgcc tgatcgttgc cagtctaact ctgaacacta tcacctctgt
 801  gttggctgca actgcaagca taatgggtgt agtcagtgtg gctgtgggtt cacagtttcc gtttcggtat aattatacaa tcaccaaggg tttggatgtt
 901  ttgatgttaa ttttcaatat gctagaattc tgccttgctg tgtccgtctc tgcatttgga tgtgaagctt cctgttgtaa ctcccgtgag gttcttgtag
1001  tgctaccatc aaatcctgtt gagacagtga tggcaccccc aatgacactt caaccattgc taccatcaga acaccaaggg accaatgttc caggaaatgt
1101  gtacaagaac cacccaggag aaatagtcta aaggcgcgcc agtatactct agagtcgaca cccggggaat tcctcgagcg ctcgtctcta gcttggcgta
1201  atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg ctcacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg gggtgcctaa
1301  tgagtgagct aactcacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg
1401  ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct cggtcgttcg gctgcggcga gcggtatcag ctcactcaaa
1501  ggcggtaata cggttatcca cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa ggccgcgttg
1601  ctggcgtttt tccataggct ccgccccccct gacgagcatc acaaaaatcg acgctcaagt cagaggtggc gaaacccgac aggactataa agataccagg
1701  cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc gaccctgccg cttaccggat acctgtccgc ctttctccct tcgggaagcg tggcgctttc
1801  tcaatgctca cgctgtaggt atctcagttc ggtgtaggtc gttcgctcca agctgggctg tgtgcacgaa ccccccgttc agcccgaccg ctgcgcctta
1901  tccggtaact atcgtcttga gtccaacccg gtaagacacg acttatcgcc actggcagca gccactggta acaggattag cagagcgagg tatgtaggcg
2001  gtgctacaga gttcttgaag tggtggccta actacggcta cactagaagg acagtatttg gtatctgcgc tctgctgaag ccagttacct tcggaaaaag
2101  agttggtagc tcttgatccg gcaaacaaac caccgctggt agcggtggtt tttttgtttg caagcagcag attacgcgca gaaaaaaagg atctcaagaa
2201  gatcctttga tcttttctac ggggtctgac gctcagtgga acgaaaactc acgttaaggg attttggtca tgagattatc aaaaaggatc ttcacctaga
2301  tccttttaaa ttaaaaatga agttttaaat caatctaaag tatatatgag taaacttggt ctgacagtta ccaatgctta atcagtgagg cacctatctc
2401  agcgatctgt ctatttcgtt catccatagt tgcctgactc cccgtcgtgt agataactac gatacgggag ggcttaccat ctggccccag tgctgcaatg
2501  ataccgcgag acccacgctc accggctcca gatttatcag caataaacca gccagccgga agggccgagc gcagaagtgg tcctgcaact ttatccgcct
2601  ccatccagtc tattaattgt tgccgggaag ctagagtaag tagttcgcca gttaatagtt tgcgcaacgt tgttgccatt gctacaggca tcgtggtgtc
2701  acgctcgtcg tttggtatgg cttcattcag ctccggttcc caacgatcaa ggcgagttac atgatccccc atgttgtgca aaaaagcggt tagctccttc
2801  ggtcctccga tcgttgtcag aagtaagttg gccgcagtgt tatcactcat ggttatggca gcactgcata attctcttac tgtcatgcca tccgtaagat
2901  gcttttctgt gactggtgag tactcaacca agtcattctg agaatagtgt atgcggcgac cgagttgctc ttgcccggcg tcaatacggg ataataccgc
3001  gccacatagc agaactttaa aagtgctcat cattggaaaa cgttcttcgg ggcgaaaact ctcaaggatc ttaccgctgt tgagatccag ttcgatgtaa
3101  cccactcgtg cacccaactg atcttcagca tcttttactt tcaccagcgt ttctgggtga gcaaaaacag gaaggcaaaa tgccgcaaaa aagggaataa
3201  gggcgacacg gaaatgttga atactcatac tcttcctttt tcaatattat tgaagcattt atcagggtta ttgtctcatg agcggataca tatttgaatg
3301  tatttagaaa aataaacaaa taggggttcc gcgcacattt ccccgaaaag tgccacctga cgtctaagaa accattatta tcatgacatt aacctataaa
3401  aataggcgta tcacgaggcc ctttcgtc
```

> RDC0234 Translated Insert Sequence

```
  1  mqggeqttma vvpgvavpsk nsvmtsqmwn ekkekflkge pkvlgvlqvm iaiinlslgi iilttlfsel ptsvmlmvpi wgsimfivsg slsiaagvtp
101  tkclivaslt lntitsvlaa tasimgvvsv avgsqfpfry nytitkgldv lmlifnmlef clavsvsafg ceasccnsre vlvvlpsnpv etvmappmtl
201  qpllpsehqg tnvpgnvykn hpgeiv
```