

Specifications:

Gene:	<i>mVstm2a</i>
Accession:	NP_666079
Insert size:	724bp
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.

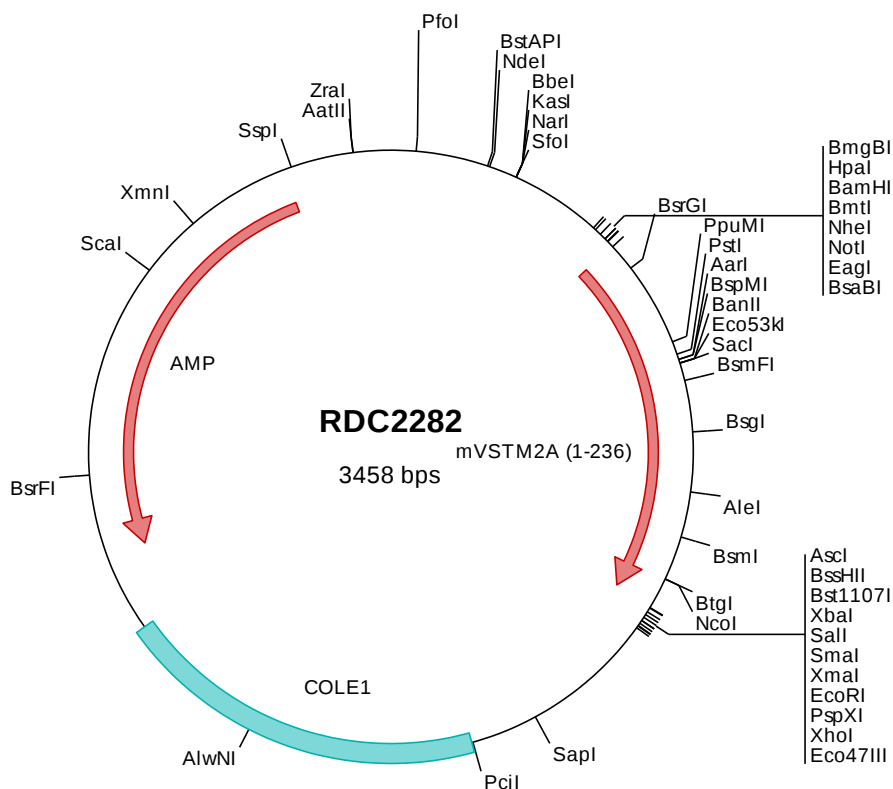
mVSTM2A cDNA Plasmid

Vstm2a V-set and transmembrane domain containing 2A [*Mus musculus* (house mouse)]

Also known as: Vstm2

Summary:

VSTM2A plays a role in the regulation of the early stage of white and brown preadipocyte cell differentiation. It promotes adipogenic commitment of preadipocytes by increasing gene expression of the transcription factor PPARG in a BMP4-dependent signaling pathway. Alternatively spliced transcripts encoding different proteins have been described.



> RDC2282 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggcgccgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgccccgc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtgtg caaggcgatt aagttgggta acgccagggt ttccccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagcct ggaaccgata tgcctagcgc ggccgccacc atgatgggga tctttttggc gtctgttggg tttatgttct tttcgtgtt
501  atatgtacaa caagggtctt cttctcaagc aaaatttacc gagtgtccga gaaatgtgac tgctaccgaa gggcaaaatg tggagatgtc ctgtgtcttc
601  caaaaggcgt ctgcttcagt gtacctggag atccagtggt ggttccctcg ggggccagag gacctggagc aaggcacgga ggtgagcagg tcgcaggtgg
701  agctcttacc cgacagagac ccggacaacg atgggaccaa gattagtaca gtgaaagtcc aaggcaatga tatctccac aagcttcaga tatccaaagt
801  gagaaaaaag gatgaagggt tatacagagt caggggtgact gacgctaact acggggagct tcaggaacac aagggccagg cctatctgaa agtcaatgcc
901  aacagccatg ctcggaaggat gcaggccttt gaagcctcac ctatgtggct gcaagacacg aagcctcgaa agaacgcac tcggtgtgtt cccagcagcg
1001 tcacacaactc tgcacaacaa cgaatgcact ccacctccag ccctcaacgc gtacgcaaaa tccccaaagc aagtcacaa tcagggtcga ggaatagctac
1101 aagccatgga cttctgtctc tgtctctgtt ttgtggcttt gtgaagggtg ctttgcctta aaggcgcgcc agtatactct agagtgcaca cccggggaat
1201  tccctgagcg ctcgtctcta gcttggcgta atcatgggtca ctgtgtttc ctgtgtgaaa ttgttatccg ctcaaatctc cacacaacat acgagccgga
1301  agcataaagt gtaaacctcg ggtgccttaa tgagtgcctc aactcacatt aattgcgttg cgtcactgac ccgctttcca gtcgggaaac ctgtcgtgcc
1401  agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgctctt ccgcttctc gctcactgac tcgctgcgct cggctgttcg
1501  gctgcggcga gcggtatcag ctcaactcaa ggcggtataa cggttatcca cagaatcagg ggataacgca ggaagaacaa tgtgagcaaa aggccagcaa
1601  aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggtc ccgccccctc gacgagcatc acaaaaatcg acgctcaagt cagaggtggc
1701  gaaacccgac aggaactata agataccagg cgtttccccc ttggaagctc ctctgctgct ctcctgttcc gacctgcgc acctcgatg atctgtccgc
1801  cttttctcct tcgggaagcg tggcgctttc tcaatgtcca cgtgttaggt atctcagttc ggtgtaggtc gttcgtctca agctgggctg tgtgcacgaa
1901  ccccccgttc agcccgaccg ctgcgcctta tccggttaact atcgtcttga gtccaacccg gtaagacacg acttatcgcc actggcagca gccactggta
2001  acaggattag cagagcgagg tatgtaggcg gtgtacaga gttcttgaag tgggtgccta actacggcta cactagaagg acagtattg gatatctgct
2101  tctgtgaag ccagttacct tcggaaaaag agttggtagc tcttgatccg gcaaacaaac caccgctggg agcgtgtggt tttttgtttg caagcagcag
2201  attacgcgca aaaaaaagg atctcaagaa gatcctttga tcttttctac ggggtctgac gctcagtggg acgaaaaact acgttaaggg attttgttca
2301  tgagattatc aaaaaggatc ttcaactaga tctttttaa ttaaaaatga agttttaaat caatctaaag tataatatg taaacttggg ctgacagtta
2401  ccaatgctta atcagtgagg cacctatctc agcgatctgt ctatttctgt catccatagt tgctgactc cccgtcgtgt agataactac gatacgggag
2501  ggcttacctc ctggccccag tgcgtcaatg ataccgcgag acccagcctc accggctcca gatttatcag caataaacca gccagccgga agggccgagc
2601  gcagaagtgg tctgcaact ttatccgcct ccattccgctc tattaattgt tgcgggaag ctacagtaag tagttcgcca gttaataggt tgcgcaacgt
2701  tgttgccatt gctacaggca tcgtggtgtc acgctcgtcg tttggtatgg cttcattcag ctccggttcc caacgatcaa ggcgagttac atgatcccc
2801  atgttgtgca aaaaagcggg tagctccttc ggtcctccga tcgttgtcag aagtaagtgt gccgcagtgt tatcactcat ggttatggca gcaactgcata
2901  attctcttac tgtcatgcca tccgtaagat gcttttctgt gactggtgag tactcaacca agtcattctg agaataagtgt atcgcgacac caggttgcct
3001  ttgcccgggc tcaatacggg ataataccgc gccacatagc agaactttaa aagtgtctcat cattggaaaa cgttctctcg ggcgaaaact ctcaaggatc
3101  ttaccgctgt tgagatccag ttcgatgtaa cccactcgtg cacccaactg atcttcagca tcttttactt tcaccagcgt tcttggttga gcaaaaacag
3201  gaaggcaaaa tgccgcaaaa aagggaataa gggcgacacg gaaatgttga atactcatac tcttctcttt tcaatattat tgaagcattt atcagggtta
3301  ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaacaat taggggttcc gcgcacattt ccccgaaaag tgccacctga cgtctaagaa
3401  accattatta tcatgacatt aacctataaa aataggcgta tcaagaggcc ctttctgtc

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> RDC2282 Translated Insert Sequence

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1   mmgiflasvg fmfsvlyvq qglssqakft elprnvate gqnvmescf qsgsasvyle iqwwflrgpe dleggteaaq sqvellpdrd pdndgtkist
101  kvvggndish klqiskvrkk deglyecrvt danygelqeh kaqaylkvna nsharrmqaf easpmwlqdt kprknassvv pssvhnsanq rmhstssppa
201  vakipkqspq sgariatshg lsvlllvcgf vkga11

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