

Specifications:

Gene:	hC1QTNF12
Accession:	NP_001014980
Insert size:	922bp
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.

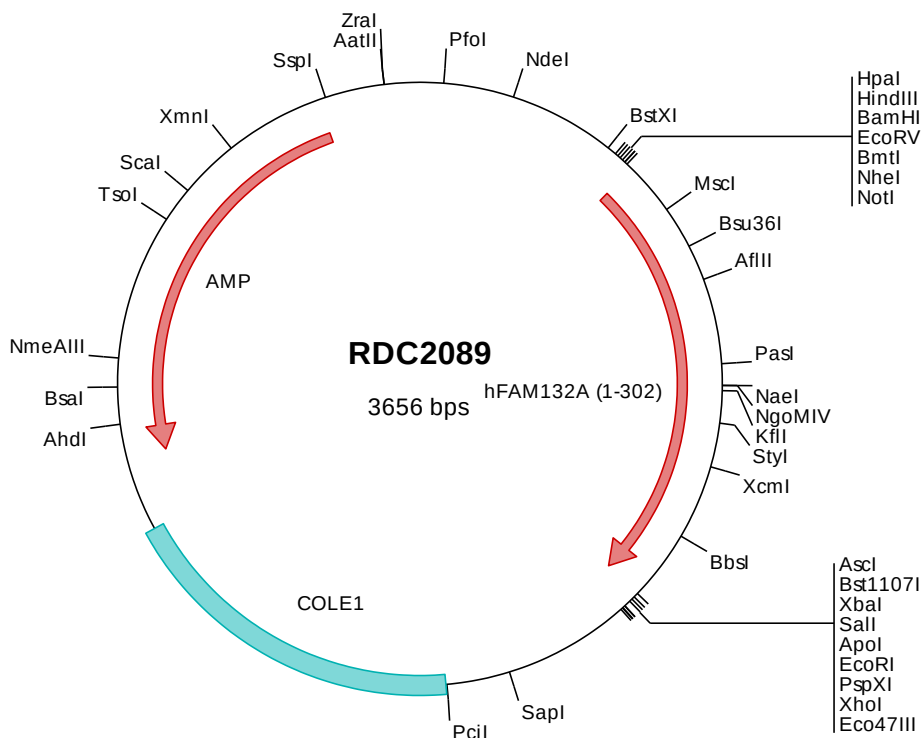
hAdipolin/FAM132A DNA Plasmid

**C1QTNF12 C1q and TNF related
12 [*Homo sapiens* (human)]**

Also known as: C1QDC2; CTRP12;
FAM132A

Summary:

FAM132A is an insulin-sensitizing adipocyte-secreted protein (adipokine) that regulates glucose metabolism in liver and adipose tissue. It promotes glucose uptake in adipocytes and suppresses de novo glucose production in hepatocytes via the PI3K-Akt signaling pathway. It is also able to attenuate inflammation in fat tissue.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2089 Plasmid DNA Sequence

```

1   tcgcgcgcttt cggatgatgac ggtgaaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101  tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcggcgct gggcctgggc cgcggtcgtg gtctctctcg ggccgcagct
501  cgtgtctctc gggggcgctcg gggcccgccg ggaggcacag aggcgcgacg agcctggcca gcgcgcagat ccccccacag ccaccgccag cgcgtctctc
601  cgcgaggggc tgcccgaggc ccccaagcca tcccaggcct caggacctga gttctccgac gccacatga catggctgaa ctttgtccgg cgcgcggacg
701  acggcgccctt aagggaaggc tgcggaagca gggacaagaa gccgcgggat cctctcggtc ccccgaggac tccaggtgca gaagtgaacc cggagactct
801  gcttcacgag tttcaggagc tgcgaaaga ggcacggag gcgcggttct cagggttctt ggaccgctg ctgccccagg ggcggggcct cgcgctggtg
901  ggcgaggcct ttcactgcg gctgcagggt ccccgccggg tggacaagcg gaogctggtg gactgcatg gtttccaggc tctgtctgac caagtgctct
1001  cctcggtctg ctcgggtctg agcctggcct cgggtcggtt cagggccccc gtgtccggca tcttcagttt cctgcccagt ctgcacgtgg accacagtga
1101  gctgcagggc aaggcccggc tgcgggcccg ggaagtggtg tgtgttctca tctgtattga gtccctgtgc cagcgccaca cgtgcctgga ggcgctctca
1201  ggccctggaga gcaacagcag ggtcttcacg ctacaggctg aggggctgct gcagctgcag gctggacagt acgcttctgt gtttgtggac aatggctcgg
1301  ggcgcgtcct caccatcgag gcgggctcca gcttctccg gtcgtctctg ggccgcccag tatactctag agtcgacacc cggggaattc
1401  ctcgagcgctt cgtctctagc ttggcgtaat catgttcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag
1501  cataaagtgt aaagcctggg gtgcctaata agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt cgggaaacct gtcgtgccag
1601  ctgcattaat gaatcgggca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttctctgc tcaactgact gctgcgctcg gtcgttcggc
1701  tgcggcgagc ggtatcagct cactcaaaag cggtaataac gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa
1801  ggccagggaac cgtaaaaagg ccgcgttgct ggcgtttttc cataggtctc gcccccctga cagcatcac aaaaatcgac gctcaagtca gaggtggcga
1901  aaccgcgacg gactataaag ataccaggcg ttcccccctg gaagctccct cgtgcgctct cctgttccga cctgcccgtt taccggatag ctgtccgctc
2001  ttctcccttc ggggaagcgt ggcgtttctc aatgctcagc ctgtaggtat ctcagttcgg ttaggtctgt tcgctccaag ctgggctgtg tgcacgaacc
2101  ccccgttcag ccgaccgctt gcgccttctt cggtaactat cgtcttgagt ccaaccgggt aagacacgac ttatcgccac tggcagcagc cactggtaac
2201  aggattagca gagcgaggta ttaggcgggt gctacagagt tcttgaagtg gtggcctaac tacggctaca agtatttggt atctgcgctc
2301  tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cgggtggttt tttgtttgca agcagcagat
2401  tacgcgcaga aaaaaaggat ctcaagaaga tcttttgatc ttttctacgg ggtctgacgc tcagtggaaac gaaaactcac gtttaaggat tttgtctatg
2501  agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggtct gacagttacc
2601  aatgcttaat cagtgaaggc cctatctcag cgtatctgtc atttcgttca tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg
2701  cttaccatct ggcgccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc cagccggaag gcccgagcgc
2801  agaagtggtc ctgcaacttt atccgcctcc ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg cgaacgtttg
2901  ttgccattgc tacaggcatc gtggtgtcac gctcgtctgt ttggtatggt tcattcagct ccggttccca acgatcaagg caggtttacat gatcccccat
3001  gttgtgcaaa aaagcgggta gctccttcgg tctccgatac gttgtcagaa gtaagtggc gcagtggtta tcaactatgg ttatggcagc actgcataat
3101  tctcttactg tcatgccatc cgttaagatg ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gccggcagcc agttgtctct
3201  gcccgcgctc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaaacg ttcttcgggg cgaaaactct caaggatctt
3301  accgctgttg agatccagtt cgtatgaacc cactcgtgca cccaactgat cctcagcatc ttttacttct accagcgttt ctgggtgagc aaaaaaggga
3401  aggcaaaatg ccgcaaaaaa gggaataagg gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg aagcatttat cagggttatt
3501  gtctcatgag cggatacata tttgaatgta tttagaaaaa taacaaaata ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac
3601  cattattatc atgacattaa cctataaaaa taggcgtatc acgagggcct ttcgtc

```

> RDC2089 Translated Insert Sequence

```

1   mrrwawaavv vllgpqlvll ggvgarreaq rtqpgggrad ppnatasass reglpeapkp sqasgpefsd ahmtwnlfvr rpddgalrkr cgsrdkkprd
101  lfgppppppga evttaellhe fqellkeate rrfsglldpl lpqgagrlrv geafhcrilq prrvdkrtlv elhgfqapaa qgafirgsl slasgrftap
201  vsqifqfsas lhvdhseiqg karlrardvv cvlicieslc qrhtcleavs glesnsrvft lqvqgllqlq agqyasvfvd ngsgavltiq agssfsqlll
301  gt

```