

Specifications:

Gene:	rCtgf
Accession:	NP_071602
Insert size:	1057bp
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.

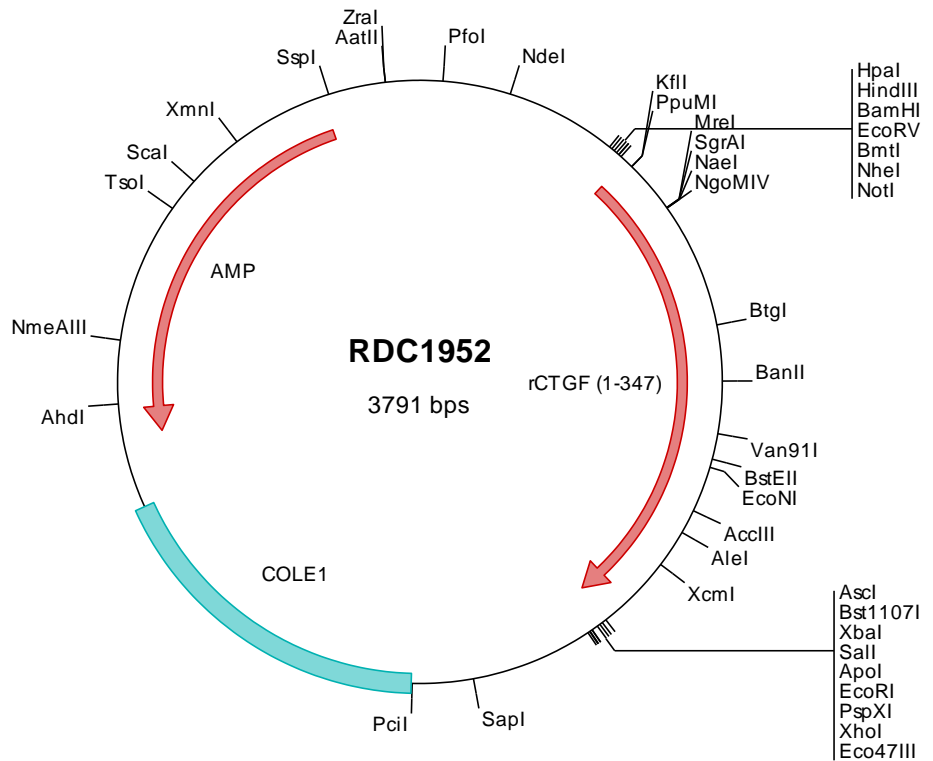
rCTGF cDNA Plasmid

Ctgf connective tissue growth factor [*Rattus norvegicus* (Norway rat)]

Also known as: CTGRP

Summary:

CTGF belongs to the CCN (CYR61/CTGF/NOV) family of secreted proteins that share a common multimodular organization. CTGF has the ability to bind multiple ligands and has numerous effects on development, differentiation, and disease. The C-terminal cysteine knot motif contains the heparin and low density lipoprotein receptor (LDLR) binding sites that contributes to the adhesive and mitogenic properties of CTGF.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1952 Plasmid DNA Sequence

```

1   tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttaaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gttgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attgccatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atgcttgcct  cagtcgcggg  tcccgttagc  ctgccttgg  tgetcotcct
501  ctgcaccocgg  octgccaocg  gccaggactg  cagcgcgcag  tgtcagtgcg  cagctgaagc  gccgcgcgc  tgcccoccg  gcgtgagcct  ggtgtggac
601  ggctgocggct  gctgcocgct  ctgcgccaag  cagctgggag  aactgtgcac  ggagcgtgat  ccctgcgacc  cacacaaggg  tctcttctgc  gaactcgctg
701  ccccgcgcaa  ccgcaagatt  ggcgtgtgca  ctgccaaga  tggtgcaacc  tgtgtctctg  gtgggtccgt  gtaccgacg  gccgagtcct  tccaagcag
801  ttgcaaatac  cagtgcactt  gcctggatgg  ggccgtggcg  tgtgtgcccc  tgtgcagcat  ggacgtgcgc  ctgcccagcc  ctgactgcc  ctcccgaga
901  agggccaagc  tgcccgggaa  atgctgtgag  gagtgggtg  gtgatgagcc  caaggaccgc  acagtgttg  gccctgcct  agctgcctac  cgactggaag
1001 acacatttgg  cctgaccca  actatgatgc  gagccaactg  cctggctcag  accacagagt  ggagcgcctg  ttctaagacc  tgtgggatgg  gcatctccac
1101 cgggttacc  aatgacaata  ccttctgcag  cctggagaag  cagagtcgtc  tctgcatggt  caggccctgt  gaagctgacc  tagagaaaa  cattaagaag
1201 ggcaaaaagt  gcatocggac  gcctaaaatt  gccaaagcct  toaagtttga  cgttcttgcg  tgcaccagt  tgaagacct  cgggctaag  tctgtgggg
1301 tgtgcacgtg  cggcgcctgc  tgcaaccgc  acagaaccgc  cacactgcg  gtggatcca  agtgcocga  tggcgagatc  atgaaaaaga  acatgatgtt
1401 catcaagacc  tgtgcctgcc  attacaactg  tcccggggac  aatgacatct  ttgagctcct  gtactacagg  aagatgtag  gagacatggc  gtaaaaggcc
1501 gccagtatac  tctagagtgc  acaccgggg  aattctctga  gcgctcgtct  ctgcttggc  gtaatcatgg  tcatagctgt  ttctgtgtg  aaattgttat
1601 ccgctcacia  ttccacacia  catacagacc  ggaagcataa  agtgtaaaag  cttgggtgcc  taatgagtga  gctaactcac  attaatggc  ttgcgctcac
1701 tgcccgcctt  ccagtcggga  aacctgtcgt  gccagctgca  ttaatgaatc  ggccaacgcg  cgggagaggg  cggtttgcgt  attggcgct  ctccgcttc
1801 ctgcctcact  gactcgtgc  gctcggctg  tcggctgccc  cgagcgggat  cagctcact  aaaggcggt  atacggttat  ccacagaatc  aggggataac
1901 caggaaaaga  acctgtgagc  aaaaagccag  caaaaagcca  gaaaccgtaa  aaaggccgcg  ttgctggcgt  ttttccatag  gctccgccc  cctgacgagc
2001 atcacaiaaa  tcgacgctca  agtcagaggt  ggcaaaatcc  gacaggacta  taaagatacc  aggcgtttcc  ccctggaagc  tccctcgtgc  gctctcctg
2101 tccgaaccctg  ccgcttaccg  gatacctgc  cgcctttctc  cctcgggaa  gcgtggcgc  ttctcaatg  tcacgttga  ggtatctcag  ttctgtgtg
2201 gtcgttctgc  ccaagctggg  ctgtgtgcac  gaacccccgc  ttcagcccga  ccgctgcgc  ttatccggt  actatcgtct  tgagtccaac  ccgtaagac
2301 acgacttatc  gccactggca  gcagccactg  gtaacaggat  tagcagagcg  aggtatgtag  gcggtgctac  agagttctt  aagtgtggc  ctaactacg
2401 ctacactaga  aggacagtat  ttggtatctg  aagccagtta  ccttcggaaa  aagagttggt  ctacgcgatc  tgtctattc  gttcctcat  agttgcctga
2501 ggtagcggtg  gttttttgt  ttgcaagcag  cagattacgc  gcagaaaaaa  aggatctcaa  gaagatcctt  tgatctttt  tacggggtct  gacgctcag
2601 ggaacgaaaa  ctcacgttaa  gggattttg  tcatgagatt  atcaaaaagg  atcttcacct  agatccttt  aaattaaaa  tgaagttta  aatcaatct
2701 aagtataat  gagtaaacct  ggtctgacag  ttaccaatgc  ttaatcagtg  agccacctat  ctacgcgatc  tgtctattc  gttcctcat  agttgcctga
2801 ctcccctgc  tgtagataac  tacgatacgg  gagggttac  catctggccc  cagtgctgca  atgataaccg  gagaccacg  ctaccggct  ccagatttat
2901 cagcaataaa  ccagccagcc  ggaaggccg  agccagaaag  tggctcctg  actttatccg  cctccatcca  gtctattaat  tgttgccgg  aagctagagt
3001 aagtagttcg  ccagttaata  gtttgcgcaa  cgttgttgc  attgctacag  gcactgtggt  gtcacgctgc  tcgtttggt  aggtctcatt  cagctccgg
3101 tcccacgat  caaggcgagt  tacatgatcc  cccatgtgt  gcaaaaaagc  ggttagctcc  ttcggtcctc  cgatcgtgt  cagaagtaag  ttggccgag
3201 tgttatcact  catggttatg  gcagccactg  ataattctct  tactgtcatg  ccatccgtaa  gatgctttt  tgtgactggt  gagtactcaa  ccaagtcatt
3301 ctgagaatag  tgtatgcggc  gaccagttg  ctcttgcocg  gcgtcaatac  gggataatac  cgcgccacat  agcagaactt  taaaagtgt  catcattgga
3401 aaacgttctt  cggggcgaaa  actctcaagg  atcttaccgc  tgttgagatc  cagttcgatg  taaccactc  gtgcaacca  ctgatcttca  gcatcttta
3501 ttttcaccag  cgtttctggg  tgagcaaaaa  caggaaggca  aaatgccgca  aaaaagggaa  taaggcgac  acggaatgt  tgaatactca  tctcttctc
3601 ttttcaatat  tattgaagca  ttatcaggg  ttattgtctc  atgagcggat  acatatttga  atgtatttga  aaaaataaac  aaataggggt  ccgcgcaca
3701 tttcccga  aagtgcacc  tgacgtctaa  gaaaccatta  ttatcatgac  attaacctat  aaaaatagc  gtatcacag  gcccttctg  c

```

> RDC1952 Translated Insert Sequence

```

1   mlasvagpvs  lalvlllctr  patgqdcasq  cqcaaaaapr  cpagvslvid  gcgcorvca  qlgelcter  pdphkgflc  dfgspanrki  gvctakdgap
101  cvfggsvyrs  gesfqscky  qctcldgav  cvplcsmavr  lpspdcpfpr  rvklpgkce  ewvcdepkd  tvvgpalaay  rledfpgdp  tmrncnlvq
201  ttewsacskt  cgmgistrvt  ndntfcrlek  qsrclmvrpc  eadleenikk  gkkcirtpki  akpvkfels  g  ctsvktyrak  fcgvctdgrc  ctphrtttlp
301  vefkcpdgei  mkknmfikt  cachyncpgd  ndifeslyyr  kmygdma

```