

Specifications:

Gene:	<i>mF2</i>
Accession:	NP_034298.1
Insert size:	1870bp
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.

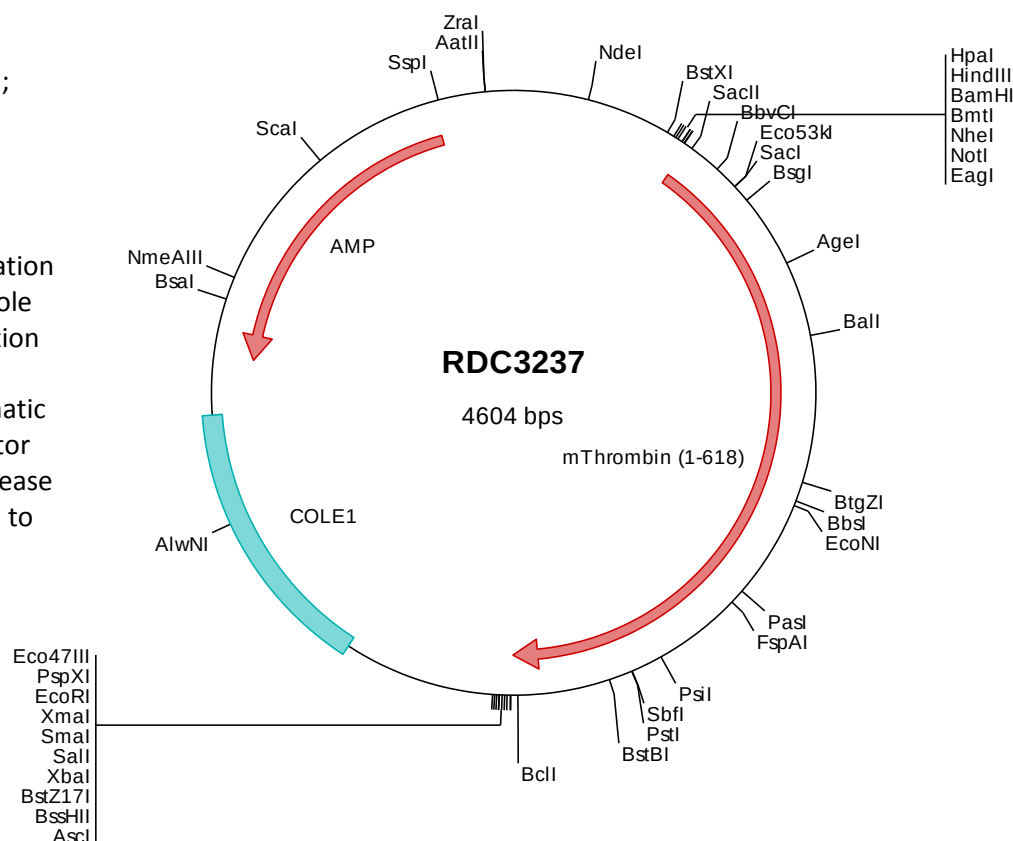
*m*Coagulation Factor II cDNA Plasmid

F2 coagulation factor II [*Mus musculus* (house mouse)]

Also known as: F; Cf2; FII; Cf-2; prot; thro

Summary:

F2/Thrombin is a vitamin K-dependent glycoprotein coagulation factor that plays an important role in the process of blood coagulation and hemostasis. It is an inactive zymogen that undergoes enzymatic cleavage by the coagulation factor Xa to form an active serine protease that converts soluble fibrinogen to insoluble fibrin clot.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3237 Plasmid DNA Sequence

```

1  tcgcgcgttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccg  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcg  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacac  atgtgcacg  tccgcggcct  gggcctccct  ggtgcttgg  ctctggctgc
501  cctggttagc  ctggttacaca  gccagcatgt  gttcctggcg  cctcagcaag  cactatcgct  gctccagcgg  gtccgcagag  ccaacagtg  cttcctggag
601  gagctccgaa  agggcaacct  agagcgtgag  tgcgtggaag  agcagtgca  ctatgaggag  gcctttgagg  ccctggagtc  tccccaagac  acagacgtgt
701  ttctgggcaa  gtacacagtg  tgtgattcag  tgaggaaaac  togagagact  ttcatggact  gtctggaaag  tcgctgtgct  atggatctgg  gtgtgaacta
801  ccttgggact  gtgaatgtca  cccataccgg  tatccagtc  cagctgtggc  ggagccgcta  cccccacaag  cctgaaatca  actccaccac  ccatcctggg
901  gcagacctga  aggagaactt  ctgcgcgaat  ccagacagca  gtaccacggg  accctggtgc  tacaccacag  atcctactgt  gcgcagagag  gaatgcagtg
1001  tctctgtctg  ttcgcaggag  ctgtggtgat  gactcctcgc  ctctggaggt  tctggaggtt  ccaaggacaa  tctgtcacct  ccactgggac  agtgccctac
1101  tgagcgtggc  cgactatacc  aggggaattt  ggcgtgata  acacttgggt  cccctcgct  gccctggaac  agcttaccag  ccaagacct  gagcaagtac
1201  caagactteg  acccogaggt  gaaactcgtg  gaaaacttot  gccgcaaccc  agaactggag  gaggaggggc  catggtgcta  tgttgcgggg  cagcctggcg
1301  actttgaata  ctgcaaacct  aactactgcg  aggagggcgt  gggagaggag  aactatgatg  tggacgagtc  catcgcggga  cgacccaccg  agtcggagtt
1401  ccacaccttc  ttcaatgaga  agacctcgg  ccttggggag  gcagactgtg  gctgcggccc  tttgttcog  aagaagtcgt  tgaagacac  aaccgaaaag
1501  gagcttcttg  actettacat  agaaggcgcc  atcgtggagg  gctgggacgc  tgagaagggt  atcgccccc  ggcaggtgat  gctttttogg  aagagtcocc
1601  aagagctcct  gtgtggggcc  agccttatca  gtgacogagt  ggtcctcact  gctgcccact  gcattctgta  cccaccctgg  gacaagaact  tcaactgaaa
1701  tgacctctcg  gtgcgcaatt  gcaagcatte  ccgaaccaga  tatgagcgg  atgttgaaaa  gatctccatg  ctggaaaaga  tctacgtcca  ccccagatat
1801  aactggcggg  agaacctaga  ccgogatate  gcctctgcca  agctaaagaa  acctgtaccc  ttcagtgaat  atattcaccc  cgtgtgtttg  ccagacaagg
1901  agacagtaac  tagctgtctc  aactcgtggt  ataaaggcgt  cgggtgacac  ttgcggcaacc  ttccggagac  atggacaacc  aacatcaatg  agatacagcc
2001  cagcgtctcg  caggtgtgta  acctgcccc  tgttagagcg  ccagttgtca  agcctccacc  ccggattcga  attactgaca  acatgttctg  tgcctgcttc
2101  aaggtgaatg  acaccaagcg  aggagatgct  tgtgaaggta  acagtggagc  accttttctg  atgaagagcg  cctttaacaa  ccgctgggat  caaatgggta
2201  ttgtctcatg  ctgcaacgga  ttgtacggga  cggcttctac  cagctgtgtg  acgcattgtg  tccgtctgaa  aaggtgggta  cgcagaagtc  ttgatcaatt
2301  tggataaagg  cgcgccagta  tactctagag  tcgacacccg  gggaattcct  cgagcgtctg  tctctagctt  ggcgtaatca  tggctcatagc  tgtttcctgt
2401  gtgaaattgt  tatccgctca  caattccaca  caacatacga  cgtgcccagt  gccggaagca  agcctggggt  gcctaagtag  tagcttaact  cacattaatt
2501  gcgttgccgt  cactgcccgc  tttccagtcg  ggaacctctg  cgtgcccagt  cgtgcccagt  gcattaatga  atcggccaac  gcgcggggag  agggcggttg
2601  gctcttccgc  ttctctcgct  actgactcgc  tcgctcggtg  cgctcggtcg  cggcgagcgg  tatcagctca  ctcaaaggcg  gtaatacgg  tatccacaga
2701  atcaggggat  aacgcaggaa  agaactatgt  agcaaaaggc  caggaacccg  ccgcgaaccc  taataaaggcc  gcgttgctgg  gctttttcca  taggctccgc
2801  cccctgcagc  agcatcacaa  aaatgcagcg  tcaagtcaag  ggtggcgaaa  ccgcagagga  ctataaagat  accaaggcgt  tccccctgga  agctccctcg
2901  tgccgtctcc  tgttcgcagc  ctgcccgtta  ccggatacct  gttccgcttt  ctcccttcgg  gaagcgtggc  gctttctcaa  tgctcacgct  gtaggtatct
3001  caattcgctg  taggtcgttc  gctccaagct  gggctgtgtg  caccgaaccc  ccgttcagcc  cgacctgctg  gcttatccg  gtaactatcg  tcttgagttc
3101  aacccggtaa  gacacgactt  atgcgccact  gcagcagcca  ctggtaacag  gattagcaga  gcgaggtatg  taggcggtgc  tacagagttc  ttgaagtgg
3201  ggcctaaacta  cggctacact  agaaggacag  tatttgggat  ctgcgctctg  ctgaagccag  ttacctctcg  aaaaagagtt  ggtagctctt  gatcccgcaa
3301  acaaacacc  gctgttagcg  tgtgtttttt  tgtttgcaag  cagcagatta  cgcgcagaaa  aaaaggatct  cttgatctt  tttacgggg  tttacgggg
3401  tctgacgctc  agtggaaacg  aaactcacgt  taagggtatt  tggctcatg  attatcaaaa  aggatcttca  cctagatcct  tttaaattaa  aaatgaagt
3501  ttaaatcaat  ctaaagtata  tatgagtaaa  cttgtctcta  cagttaccaa  tgcttaata  gtgaggcacc  tatctcagcg  atctgtctat  ttctgtctat
3601  catagttgct  tgactccccc  tcgtgtagat  aactacgata  cgggagggcg  taccatctgg  cccagtgct  gcaatgatac  ccgcagaccc  acgctcaccg
3701  gctccagatt  tatcagcaat  aaaccagcca  gccggaagg  ccgagcgag  aagtggtcct  gcaactttat  ccgcctccat  ccagttctat  aattgttgc
3801  gggaagctag  agtaagtagt  tcgccagtta  atagtttgct  caacgttgtt  gccattgcta  caggcatcgt  ggtgtcacgc  tcgtcgtttg  gtatggcttc
3901  attcagctcc  ggttcccaac  gatcaaggcg  agttacatga  tcccccattg  tgtgcaaaaa  agcggtttag  tccttcggtc  ctccgatcgt  tgtcagaagt
4001  aagttggccg  cagtgttatc  actcatggtt  atggcagcac  tgcataattc  tcttactgtc  atgccatccg  taagatgctt  tctgtgact  ggtgagtact
4101  caaccaagtc  attctgagaa  tagtgtatgc  ggcgaccgag  ttgtctcttc  ccgcgctcaa  tacgggataa  taccgcgcca  catagcagaa  ctttaaaagt
4201  gctcatcatt  ggaaaacggt  cttcggggcg  aaaactctca  aggatcttac  cgtgttgag  atccagttcg  atgtaaccca  ctcgtgcacc  caactgatct
4301  tcagcatctt  ttactttcac  cagcgtttct  ggggtgacaa  aaacaggag  gcaaaatgcc  gcaaaaaagg  gaataaggcg  gacacggaaa  tgttgaatac
4401  tcatactctt  cctttttcaa  tattattgaa  gcatttatca  ggggtattgt  ctcatgagcg  gatacatatt  tgaatgtatt  tagaaaaata  aacaaatagg
4501  ggttcgcgc  acatttcccc  gaaaagtgc  acctgacgtc  taagaaacca  ttattatcat  gacattaacc  tataaaaaata  ggcgtatcac  gaggcccttt
4601  cgtc

```

> RDC3237 Translated Insert Sequence

```

1  mshvrglglp  gclalaaals  lvhsqhvfla  pqqalsllqr  vrransgfle  elrkgnlere  cveeqcsyee  afealespqd  tdvfwakytv  cdsvrkpret
101  fmdclegrca  mdlgvnylgt  vnvthtgiqc  qlwrsryphk  peinstthpg  adlkenfern  pdssttgpwc  yttddptvre  ecsvpvcgqe  grttvmtpr
201  sggskdnlsp  plggclterg  rlyqgnlavt  tlgsplcpwn  slpaktlsky  qdfdpvklv  enfcrnpdwd  eegawcyvag  pggdfeycnl  nyceevgee
301  nydvdesiag  rttdaefhtf  fnektfglge  adcgrlplfe  kkslkdttck  elldsyidgr  ivegwdaekg  iapwqvmflr  kspqellcga  slisdrwvlt
401  aahcilyppw  dknftendll  vrigkhsrtr  yernvekism  lekiyvhpri  nwrenldrdr  allklkpvvp  fsdyihpvcl  pdkqtvtsll  ragykgrvtg
501  wgnlretwtt  nineiqpsvl  qvvnlpiver  pvckastrir  itdnmfcagf  kvndtkrgda  cegdsggpfv  mkspfnrwy  qmgivswgeg  cdrkgkygfy
601  thvfrlkrwi  qkvqidqfg

```