

**Specifications:**

Gene:	hSTAT3
Accession:	NP_644805
Insert size:	2325bp
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.

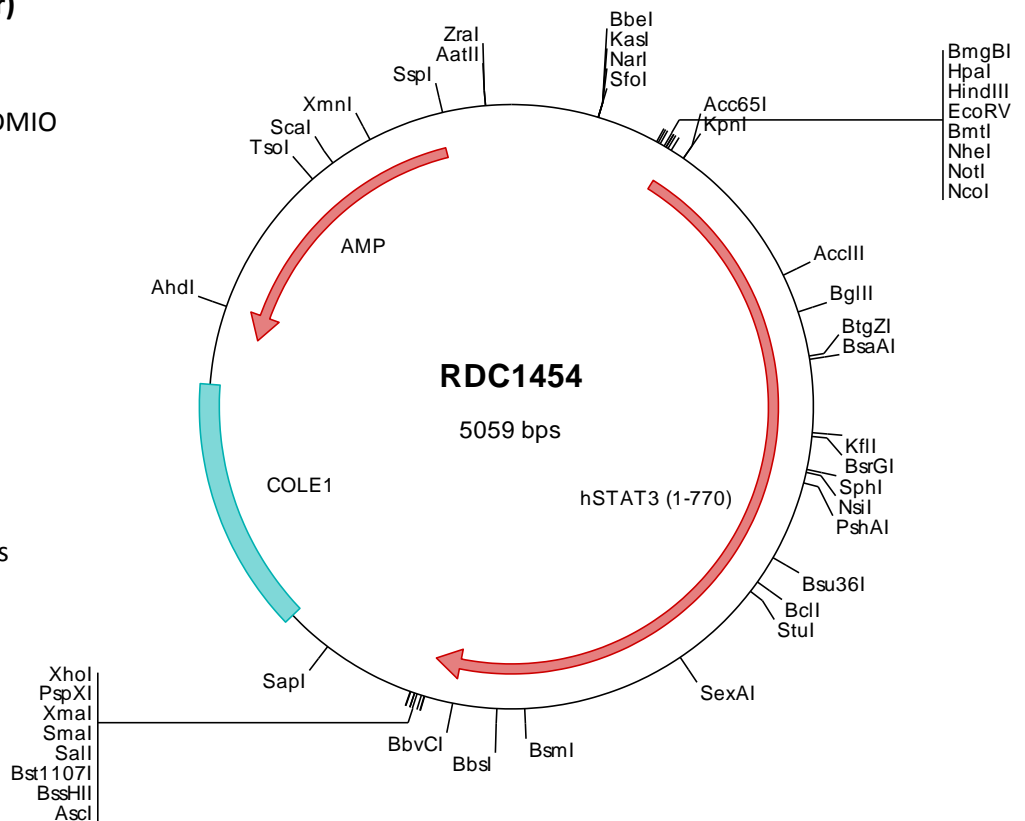
**hSTAT3 cDNA Plasmid**

**STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [ *Homo sapiens* (human) ]**

**Also known as:** APRF; HIES; ADMIO

**Summary:**

STAT3 is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. STAT3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. It mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

### > RDC1454 Plasmid DNA Sequence

```

1   tcgctgctgtt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccggggagca  gacaagcccc
101  tcaggggcggc  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaatacccc  atcaggcgcc  attcgcatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcccc  tcttcctat
301  tacgcccagct  ggcgaaaagg  ggatgtgctg  caagycgatt  aagttgggta  acgccagggt  ttcccagctc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcccac  atggcccaat  ggaatcagct  acagcagctt  gacacacggt  acctggagca
501  gctccatcag  ctctacagtg  acagcttccc  aatggagctg  cggcagtttc  tggccccctg  gattgagagt  caagattggg  catatgcccc  cagcaaaaga
601  tcacatgcca  ctttgggtgt  tcaataatct  ctgggagaga  ttgaccagca  gtatagccgc  ttcttgcaag  agtcgaaagt  tctctatcag  cacaatctac
701  gaagaatcaa  ggcagtttct  cagagcaggt  atcttgagaa  gccaatggag  atggcccgga  ttgtggcccc  gtgctgtgg  gaagaatcac  gcctctaca
801  gactgcagcc  actgcccgcc  agcaaggggg  ccaggccaac  caccocacag  cagccctggt  gacggagaag  cagcagatgc  tggagcagca  ccttcaggat
901  gtcgggaaga  gactgcagga  tctagaacag  aaaaatgaaa  tggtagagaa  tctccaggat  gactttgatt  tcaactataa  aacctcaag  agtcaaggag
1001 acatgcaaga  tctgaaatgga  caaaaagct  cagagcaggt  gcaagaatg  aacgcccgga  aacagatgct  cactgcgctg  gaccagatgc  ggagaagcat
1101 cgtgagtgag  ctggcggggc  ttttctcagc  gatggagtac  gtgcagaaaa  ctctcaccga  cgaggagctg  gctgactgga  agagggcgca  acagattgcc
1201 tgcattggag  gcccgcccaa  cctctgcta  gatcggctag  aaaaatggat  aacgtcatta  gcagaatctc  aacttcagac  cgtcaaaaac  attaagaaa
1301 tggagaggtt  gccgcaaaaa  gtttcttaca  aaggggcccc  cactgtacag  cactgtacag  tcttggagca  gagaatcgtg  cagctgttta  gaaacttaat
1401 gaaaagtgcc  tttgtgtgtg  agcggcagcc  ctgcatgccc  atgcatctct  accggcccct  cgtcatcaag  accggcgtcc  agttcaactac  taagtcagg
1501 ttgtctgtca  aattccctga  gttgaattat  cagcttaaaa  ttaaagtgtg  cactgacaaa  gactctgggg  acgttgacgc  tctcagagga  tccccgaaa
1601 ttaaatctc  gggcacaaac  tgaacatgga  tgaacatgga  agaatccaac  aacggccgga  tctctgcaga  attcaaacac  ttgacctga  gggagcagag
1701 atgtgggaat  gggggcggag  ccaatgtgga  tgcctccctg  atgtgtcag  agagctgca  cctgtaoacc  tttgagacgg  aggtgtatca  ccaaggcctc
1801 aagattgacc  tagagcccca  ctctctgcca  gttgtgtgta  ttccaacat  ctgtcagatg  tggatcaag  tggcggaggt  cctgagctgg  cagttctctc
1901 caacaacaac  caagaatgta  aactttttaa  aacttgaacc  aatggaacc  tgggatcaag  tggcggaggt  cctgagctgg  cagttctctc  caaccoccaa
2001 gcgagggact  agcatcgacc  agctgactac  actggcagag  aaaaactctg  gactctgtgt  gaattattca  ggggtgcaga  tcaactgggc  taaattttgc
2101 aagaataaac  tggctgcca  gggctctccc  ttctgggtct  ggttggaaca  ctgttgacac  tatcattgac  ctgtgaaaa  agtacctct  ggcctttgg
2201 acataatggg  ttttatacgt  aagggccctg  agcggccact  cttgactaac  aagcctccag  gcacctctct  gctaagattc  gctgaaagca  gcaaaagagg
2301 agggctcact  tctacttggg  tggagaagga  catcagcgtt  aagaccocaga  tccagctcgt  ggaaccatac  acaaaagcag  agtcaagcaa  catgtcattt
2401 gctgaaatcc  taatgggcta  taagatcaat  gatgctacca  atactctggt  gtctcactct  gttcactctc  gtaataatc  tcccaagag  gaggcattcg
2501 gaaagtattg  tcggccagag  agcccaggag  atoctgaagc  tgacccagct  agcgtgcccc  catacctgaa  gaccaagttt  atctgtgtga  gaccaaacgc
2601 ctgcagcaat  accattgacc  tgcocagtgc  cccccgact  ttagattcat  ttagtcagtt  tggaaaataa  ggtgaagggt  ctgaaacctc  agcaggaggg
2701 cagtttgagt  cccctcactc  tgacatggag  atgctcggc  atgctgcctc  cctccccctc  tgaggcgcgg  cagtatactc  tagagtgcag  accccgggaa
2801 ttctctgagc  gctcgtctct  agcttggcgt  aatcatggtc  atagctgttt  cctgtgtgaa  attgttatcc  gctcacaatt  ccacacaaca  tacgagccgg
2901 aagcataaag  tgtaaagcct  ggggtgccta  atgagtgagc  taactcacat  taattgcgtt  gcgctcaact  cccgctttcc  agtccggaaa  cctgtcgtgc
3001 cagctgctat  aatgaatcgt  ccaaccgctg  gggagagcgg  gtttgcgtat  tgggcgctct  tccgcttctc  cgtctcaactg  ctctcctgca  ctctcctgct
3101 ggctgcccgc  agcgggtatca  gctcactcaa  agggcggtat  acgggttatc  acagaatcag  gggataacgc  aggaaagaac  atgtgagcaa  aaggccagca
3201 aaaggccagg  aaccgtaaaa  agggccgctt  gctggcgttt  ttccatagcc  cctcccccct  tgacgagcat  cacaaaaatc  gacgtcaag  tcaaggggtg
3301 cgaaaccoga  cagcagataa  aagataccag  gcgtttcccc  ctggaagctc  cctcgtgccc  tctcctgttc  gcacctgccc  gcttacccga  taactgtcgg
3401 cctttctccc  ttccgggaagc  gtggcgcttt  ctcaatgctc  acgctgtagg  tatctcagtt  cgggtgagtt  cgttcgtctc  aagctgggct  gtgtgcacga
3501 acccccgttt  cagcccagcc  gctgcccctt  atccggtaac  tatcgtcttg  agtccaaccc  ggtaaagcac  gacttatcgc  cactggcagc  agccaactgt
3601 aacaggatta  gcagagccag  ggtgctacag  ggtgctacag  agttcttgaa  ggtgtggcct  aactacggct  aactagaag  gacagtattt  gctatctgct
3701 ctctgctgaa  gccagttacc  ttcggaaaaa  gagttggtag  ctcttgatcc  ggcatacaaa  ccaccgctgg  tagcgggtgt  tttttgtttt  gcaagcagca
3801 gattacgcgc  agaaaaaaag  gatctcaaga  agatcctttg  atcttttcta  cggggtctga  cctcagtggt  aacgaaaaat  cacgttaagg  cacttttggt
3901 atgagattat  caaaaagctg  cttcactgag  atccttttaa  attaaaaatg  aagtttttaa  tcaatctaaa  gtatatatga  gtaaaacttg  tctgacagtt
4001 accaatgctt  aatcagtgag  gcacctatct  cagcagatct  tctatctctg  tcatccatag  ttgcctgact  ccccgctgtg  tagataacta  cgatacggga
4101 gggcttacc  tctggcccca  gtgctcaaat  gataccgcga  gaccocagct  caccgctccc  gctagagtaa  gtagttcgcc  gtaataagct  agttaaagct
4201 cgcagaagtg  gtcctgcaac  tttatccgcc  tccatccagt  ctattaatgt  ttgcccggaa  gctagagtaa  gtagttcgcc  gtaataagct  agttaaagct
4301 ttgttgccat  tgetacagcc  atcgtggtgt  caogetcgtc  gtttggtagt  gcttcattca  gctccggttc  ccaacgatca  aggcgagtta  catgatcccc
4401 catgtttgct  aaaaaagcgg  ttagctcctt  cggctcctcg  atcgtttgca  gaagttaagt  gcccgcagtg  ttatcaactc  gagaatagtg  tggttatggc
4501 aattctctta  ctgtcatgcc  atccgtaaga  tgctttctct  tgactggtga  gtactcaaac  aagtcattct  gagaatagtg  tatgcccgca  cctgagttgct
4601 cttgcccggc  gtcaatacgg  gataataacc  gcaccatag  cagaacttta  aaagtgtcga  tcattggaag  acgttctctg  gggcgaaaac  tctcaaggat
4701 cttaccgctg  ttgagatcca  gttcagatga  acccactcgt  gcacccactc  gatctctcag  atcttttact  ttcaccagcg  tttctgggtg  agcaaaaaaa
4801 ggaaggcaaa  atgcccgaag  aaagggaata  agggcgacac  ggaagtgttg  aataactcata  ctcttccctt  ttcaatatta  ttgaagcatt  taccaggggt
4901 attgtctcat  gagcggatca  atatttgaat  gtatttagaa  aaataaaca  ataggggttc  cgcgcacatt  tccccgaaa  gtgccacctg  acgtctaaga
5001 aaccattatt  atcatgacat  taacctataa  aataggcgt  atcacgaggg  cctttctgct

```

### > RDC1454 Translated Insert Sequence

```

1   maqwnqlqql  dtryleqlhq  lysdsfpmel  rqlflapwies  qdwayaaske  shatlvfhn1  lgeidqqysr  flqesnvlyq  hnlrrikqfl  qsrylekpme
101  iarivarclw  eesrllqtaa  taaqggggan  hptaavvtek  qmleqhlqd  vrkrvqdleq  kmkvvenlqd  dfdfnykttk  sqgdmqdlng  nngsvtrqkm
201  qlleqmltal  dqmrrsivse  lagllsamey  vqkltldeel  adwkrqqia  cigppnicl  drlenwitsl  aesqlqtrqq  ikkleelqqk  vsykgdpivq
301  hrpmlleeriv  elfrnlmksa  fvverqpcmp  mhpdrlpvik  tgvqfttkvr  llvkfpelny  qlkikvcidk  dsqdvaaarg  srkfnlign  tkvnmmeesn
401  ngslsaefkh  ltlregrcgn  ggrancdasl  ivteelhlt  fetevyhggl  kidlethslp  vvisnicqm  pnawasily  nmltnnpknv  nfftppigt
501  wdqvaevlsw  qfssttkrgl  sieqltllae  kllgpgvny  gcqitwakfc  kenmagkgfs  fvwldniid  lvkkyilalw  negyimgis  kererailst
601  kppgtfillrf  sesskegvt  ftwvekdisg  ktqiqvpey  tkqqlnmsf  aeilmgykim  datnilvslp  vlylpdipke  eafgkycrpe  sqhpeadp
701  saapylktkf  icvtpctcsn  tidlpmsprt  ldslmqfgnn  gegaepsagg  qfesltdfme  ltsecatspm

```