

Specifications:

Gene:	hMANF
Accession:	NP_006001.5
Insert size:	562bp
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.

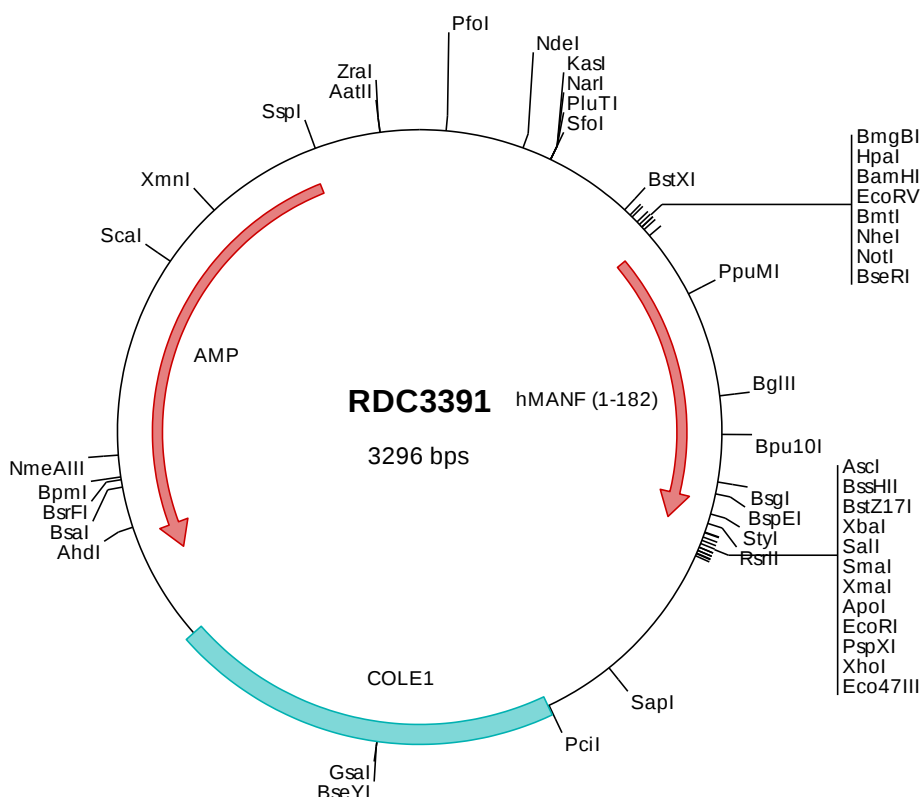
hMANF cDNA Plasmid

**MANF mesencephalic astrocyte
derived neurotrophic factor**
[*Homo sapiens* (human)]

Also known as: ARP; ARMET

Summary:

MANF is localized in the endoplasmic reticulum (ER) and golgi and is also secreted. Reducing expression of MANF increases susceptibility to ER stress-induced death and results in cell proliferation. Activity of MANF is important in promoting the survival of dopaminergic neurons.



> RDC3391 Plasmid DNA Sequence

```

1   tcgcgcgttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atgaggagga  tgtgggctac  gcaggggctg  gcgggtggcg  tggtctgag
501  cgtgtgcgcg  ggcagccggg  cgtcgcggcc  gggcgactgc  gaagtttcta  tttcttatct  gggaagattt  taccaggacc  tcaaagacag  agatgtcaca
601  ttctcaccag  ccactattga  aaacgaactt  ataaagttct  gcggggaagc  aagaggcaaa  gagaaatcgt  tgtgtacta  tatcggggcc  acagatgatg
701  cagccacca  aatcatcaat  gaggtatcaa  agcctctggc  ccaccacatc  cctgtggaga  agatctgtga  gaagcttaag  aagaaggaca  gccagatatg
801  tgagcttaag  tatgacaagc  agatcgacct  gagcacagtg  gacctgaaga  agctccgagt  taaagagctg  aagaagattc  tggtgactg  gggggagaca
901  tgcaaaagct  gtgcagaaaa  gtctgactac  atccggaaga  taaatgaact  gatgcctaaa  tatgccccca  aggcagccag  tgacgagacc  gatttataaa
1001 ggcgcgcag  tatactctag  agtcgacacc  cggggaattc  ctcgagcgct  cgtctctagc  ttggcgtaat  catggtcata  gctgtttcct  gtgtgaaatt
1101  gttatccgct  cacaattcca  cacaacatac  gagccggaag  cataaagtgt  aaagcctggg  gtgcctaatt  agtgagctaa  ctacatttaa  ttgcgttgcg
1201  ctcactgccc  gctttccagt  cgggaaacct  gtcgtgccag  ctgcattaat  gaatcggcca  acgcgcgggg  agaggcggtt  tgcgtattgg  gcgctcttcc
1301  gcttctcgc  tcactgactc  gctgcgctcg  tgcgttcggc  tgcgcgcagc  ggatcagct  cactcaaaag  cggtaatcac  gttatccaca  gaatcagggg
1401  ataacgcagg  aaagaacatg  tgagcaaaag  gccagcaaaa  ggccaggaac  cgtaaaaaag  ccgcgttgct  ggcgttttcc  cataggctcc  gcccccctga
1501  cgagcatcac  aaaaatcgac  gctcaagtca  gaggtggcga  aacccgacag  gactataaag  ataccaggcg  ttccccctg  gaagctccct  cgtgcgctct
1601  cctgtttccg  ccctgcccgt  taaccgatac  ctgtccgctt  ttctcccttc  cgcgttttcc  aatgtctcac  ctgtaggtat  ctgattccgg  ctaagttcgg
1701  tgtaggtcgt  tcgctccaag  ctgggctgtg  tgcacgaacc  ccccgttcag  cccgaccgct  gcgccttato  cggtaaactat  cgtcttgagt  ccaaccoggt
1801  aagacacgac  ttatcgccac  tggcagcagc  cactggtaac  aggattagca  gagcgaggtg  tgtaggcggt  gctacagagt  tcttgaagtg  gtggcctaac
1901  tacggctaca  ctagaaggac  agtatttgg  atctgcgctc  tgcgaagcc  agttaccttc  ggaaaaagag  ttggtagctc  ttgatccggc  aaacaaacca
2001  ccgctggtag  cgggtggttt  tttgtttgca  agcagcagat  tacgcgcaga  aaaaaaggtt  ctcaagaaga  tcctttgac  ttttctacgg  ggtctgacgc
2101  tcagtggaac  gaaaaatcac  gtttaaggat  ttgtgtcatg  agattatcaa  aaaggatctt  cacctagatc  cttttaaatt  aaaaatgaag  ttttaaatca
2201  atctaaagta  tatatgagta  aacttggctc  gacagttacc  aatgcttaat  cagtggagga  cctatctcag  cgatctgtct  atttcgttca  tccatagttg
2301  cctgactccc  cgtcgtgtag  ataactacga  tacgggaggg  cttaccatct  ggccccagtg  ctgcaatgat  accgcgagac  ccacgctcac  cggctccaga
2401  tttatcagca  ataaaccagc  cagccggaag  ggccgagcgc  agaagtggct  ctgcaacttt  atccgcctcc  atccagtcta  ttaattgttg  ccgggaagct
2501  agagtaagta  gttcgcagct  taatagtttg  cgcgaacgtg  ttgccattgc  tacaggcatc  gtggtgtcac  gctcgtcgtt  tggtatggct  tcattcagct
2601  ccggttccca  acgatcaagg  cgagttacat  gatcccccat  gttgtgcaaa  aaagcggtta  gctccttcgg  tcctccgac  gttgtcagaa  gtaagtgggc
2701  ccgagtgtta  tcaactcatg  ttatggcagc  actgcataat  tctcttactg  tcatgcatc  cgtaatgagc  ttttctgtga  cgtgtgagta  ctcaaccaag
2801  tcattctgag  aatagtgtat  gcggcgaccg  agttgctctt  gcccggcgtc  aatacgggat  aataccgcgc  cacatagcag  aactttaaaa  gtgctcatca
2901  ttgaaaaacg  ttcttcgggg  cgaaaactct  caaggatctt  accgctgttg  agatccagtt  cgatgtaacc  cactcgtgca  cccaactgat  cttcagcatc
3001  ttttactttc  accagcggtt  ctgggtgagc  aaaaacagga  aggcaaaatg  ccgcaaaaaa  gggaataagg  ggcacacgga  aatgttgaat  actcatactc
3101  ttcctttttc  aatattattg  aagcatttat  cagggttatt  gtctcatgag  cggatacata  tttgaatgta  tttagaaaaa  taaacaaata  ggggttccgc
3201  gcacatttcc  ccgaaaagtg  ccacctgacg  tctaagaaac  cattattatc  atgacattaa  cctataaaaa  taggcgtatc  acgaggccct  ttgcgc

```

> RDC3391 Translated Insert Sequence

```

1   mrrmwatqgl  avalalsvlp  gsralrpgdc  evcisylgrf  yqdlkdrdvt  fspatienel  ikfcreargk  enrlyyyiga  tddaatkiin  evskplahhi
101  pvekiceklk  kkdsgicelk  ydkqidlstv  dlklrlvkel  kkildwget  ckgcaeksdy  irkinelmpk  yapkaasart  dl

```