

Specifications:

Gene:	<i>h</i> CNTF
Accession:	NP_000605
Insert size:	616bp
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.

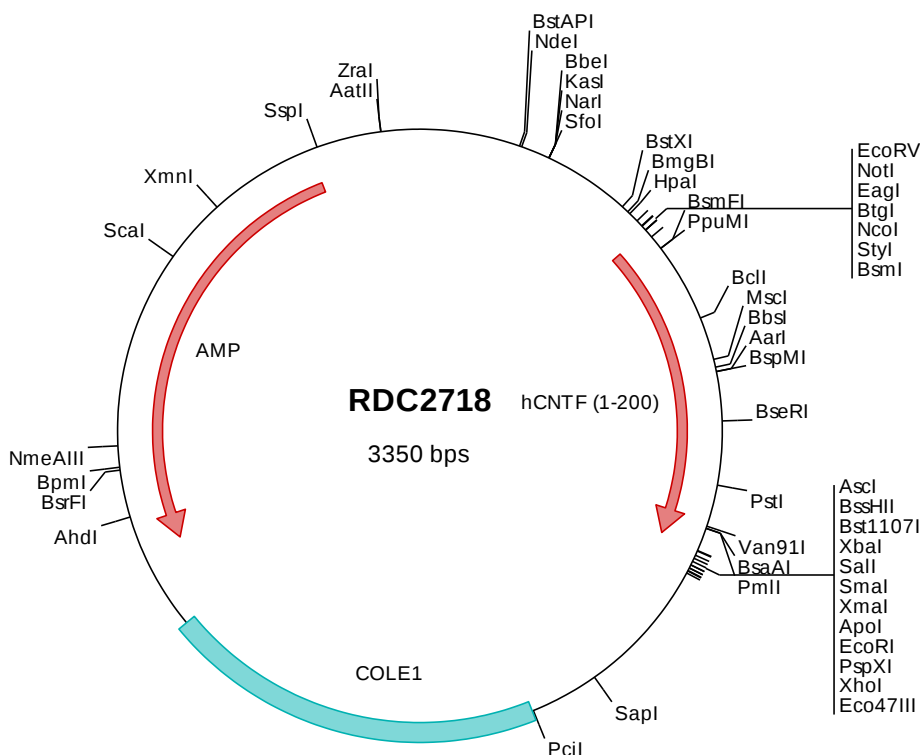
*h*CNTF cDNA Plasmid

CNTF ciliary neurotrophic factor
[*Homo sapiens* (human)]

Also known as: HCNTF

Summary:

CNTF is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. CNTF is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in CNTF, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2718 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atggctttca cagagcattc accgctgacc cctcaccgtc gggacctctg
501  tagccgcctct atctggctag caagggaagt tcgttcagac ctgactgcct ttacgggaatc ctatgtgaag catcagggcc tgaacaagaa catcaacctg
601  gactctgcgg atgggatgac agtggcaagc actgatcagt ggagtgagct gaccgaggca gagcgactcc aagagaacct tcaagcttat cgtaccttcc
701  atgtttttgtt ggcagagctc ttagaagacc agcagggtgca ttttaccoca accgaagggt acttccatca agctatacat acccttcttc tccaagtctc
801  tgccctttgca taccagatag aggagttaat gatactcctg gaatacaaga tccccccaa tgaggctgat gggatgccta ttaatgttgg agatggtggt
901  ctcttttgaga agaagctgtg gggcctaaag gtgctgcagg agctttcaca gtggacagta aggctccatc atgaccttog tttcatttct tctcatcaga
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1201 gtgtaaaagcc tgggggtgcct aatgagttag ctaactcaca ttaattgcgt tgcgtcact gcccgcttcc cagtcgggaa acctgtcgtg ccagctgcat
1301 taatgaatcg gccaacgcgc ggggagaggg ggtttgcgta ttgggcgctc ttcgcttccc tcgctcactg actcgctcgc ctcggtcggt cggctgcggc
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2301 taatcagtga ggcacctatc tcagcgatct gtctatttct ttcattccata gttgcctgac tccccgctgt gtagataact acgatacggg agggcttacc
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3101 aatgccgcaa aaaagggaaat aagggcgaca cggaaatgtt gaatactcat actcttctct tttcaatatt attgaagcat ttatcagggt tattgtctca
3201 tgagcggata catatttgaa tgtatttaga aaaataaaca aatagggtgt ccgcgcacat tccccgaaa agtgcacact gacgtctaag aaaccattat
3301 tatcatgaca ttaacctata aaaataggcg tatcacgagg ccttttcgtc

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> RDC2718 Translated Insert Sequence

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1   maftehsplt phrrdlcsrs iwlarkirsd ltaltesyvk hqglknknl dsadgmpvas tdqwseltea erlqenlqay rtfhvlarl ledqgvhftf
101  tegdfhqaih tlllgvaafa yqieelmill eykipnead gmpinvdgg lfekklwglk vlqelsqwtv rsihdlrfis shqtgiparg shyiannkkm

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