

Specifications:

Gene:	mBdnf
Accession:	NP_001041604.1
Insert size:	763bp
Concentration:	10µg at 0.2µg/µL

**mBDNF cDNA
Plasmid**

Bdnf brain derived neurotrophic factor [*Mus musculus* (house mouse)]

Also known as: ANON2; BULN2

Summary:

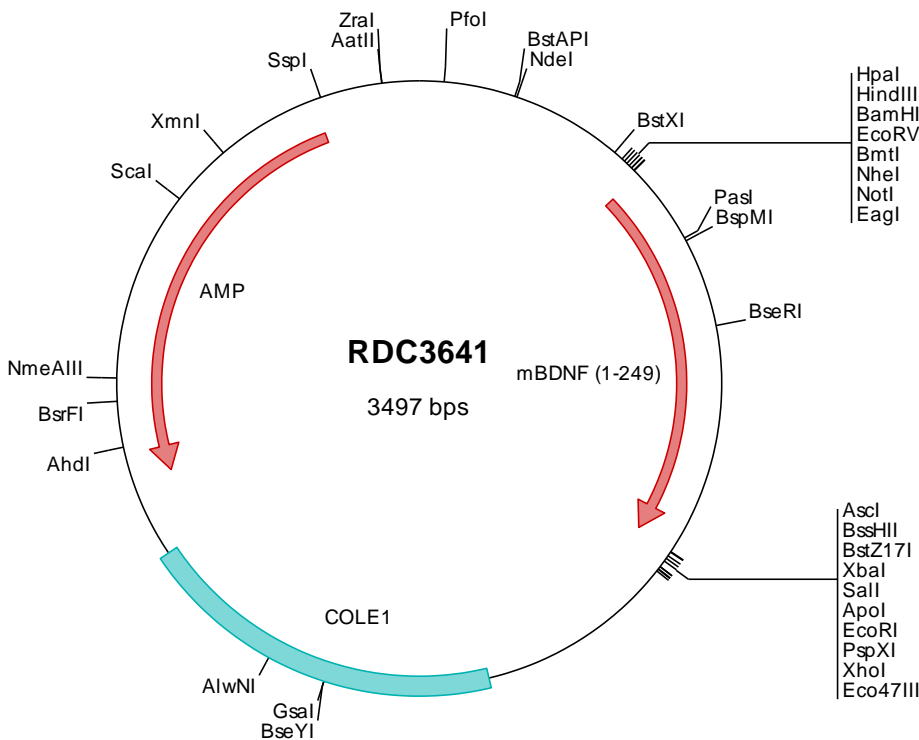
BDNF is a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of BDNF to its cognate receptor promotes neuronal survival in the adult brain. Expression of BDNF is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. BDNF may play a role in the regulation of the stress response and in the biology of mood disorders.

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.



> RDC3641 Plasmid DNA Sequence

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1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccc
101 tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
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301 tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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2501 gcctgactcc ccgtcgtgta gataactacg atacgggag gcttaccatc tggccccagt gctgcaatga taccgcgaga cccacgctca ccgctccag
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3401 cgcacatttc cccgaaaagt gccacctgac gctcaagaaa ccattattat catgacatta acctataaaa atagcggtat cacgagggcc tttcgtc

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> RDC3641 Translated Insert Sequence

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1 mtilfltmvi syfgcmkaap mkevnvhqgg nlayppvrth gtlesvngpr agsrglttts ladtfehvie elldedqkvr pneenhkdad lytsrvmlss
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