

Product datasheet for **RC226761**

BDNF (NM_001143809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDNF (NM_001143809) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BDNF
Synonyms:	ANON2; BULN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226761 representing NM_001143809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCTGTGCGATTTTCATTGTGTGCTCGGTTTCGCAAGCTCCGTAGTGCAGGAAGGTGCGGGAAGTTCC
ACCAGGTGAGAAGAGTGATGACCATCCTTTTCCTACTATGGTTATTTTCATACTTTGGTTGCATGAAGGC
TGCCCCATGAAAGAAGCAAACATCCGAGGACAAGGTGGCTTGGCCTACCCAGGTGTGCGGACCCATGGG
ACTCTGGAGAGCGTGAATGGGCCAAGGCAGGTTCAAGAGGCTTGACATCATTGGCTGACACTTTTGAAC
ACGTGATAGAAGAGCTGTTGGATGAGGACCAGAAAGTTTCGGCCCAATGAAGAAAACAATAAGGACGCAGA
CTTGATACAGTCCAGGGTATGCTCAGTCAAGTGCCTTTGGAGCCTCCTTCTCTTTCTGCTGGAG
GAATACAAAAATTACCTAGATGCTGCAAACATGTCCATGAGGGTCCGGCGCCACTCTGACCTGCCCGCC
GAGGGGAGCTGAGCGTGTGTGACAGTATTAGTGAGTGGGTAACGGCGGCAGACAAAAGACTGCAGTGGA
CATGTCCGGCGGGACGGTCACAGTCTTTGAAAAGGTCCCTGTATCAAAAGGCCAACTGAAGCAATACTTC
TACGAGACCAAGTGAATCCCATGGGTTACACAAAAGAAGGCTGCAGGGGCATAGACAAAAGGCATTGGA
ACTCCCAGTGCCGAACACCCAGTCGTACGTGCGGGCCCTTACCATGGATAGCAAAAAGAGAATTGGCTG
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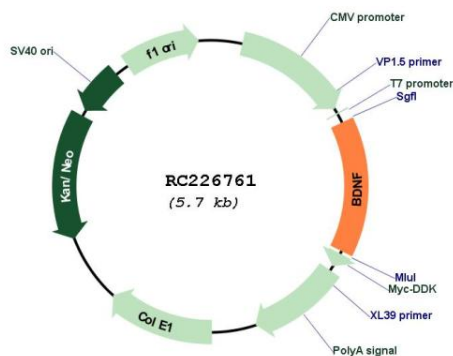
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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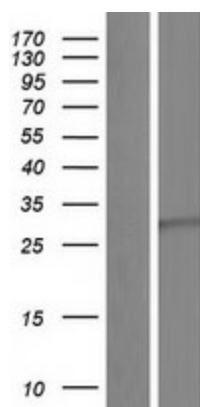
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Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001143809.1, NP_001137281.1</u>
RefSeq ORF:	831 bp
Locus ID:	627
UniProt ID:	<u>P23560</u>
Cytogenetics:	11p14.1
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Transmembrane
Protein Pathways:	Huntington's disease, MAPK signaling pathway, Neurotrophin signaling pathway
MW:	31.12 kDa
Gene Summary:	This gene encodes 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 this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC226761



Western blot validation of overexpression lysate (Cat# [LY428355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226761 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).