

Product datasheet for **MR228782**

Bdnf (NM_001285421) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdnf (NM_001285421) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bdnf
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228782 representing NM_001285421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATCCTTTTCCTTACTATGGTTATTTCACTTTCGGTTGCATGAAGGCGGCCCATGAAAGAAG
TAAACGTCACGACAAGGCAACTTGGCCTACCCAGGTGTGCGGACCCATGGACTCTGGAGAGCGTGAA
TGGGCCAGGGCAGGTTTCGAGAGGTCTGACGACGACATCACTGGCTGACACTTTTGAGCAGTCATCGAA
GAGCTGCTGGATGAGGACCAGAAGGTTTCGGCCCAACGAAGAAAACCATAAGGACGCGGACTTGTACTT
CCCGGGTGATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTACTCTTTCTGCTGGAGGAATACAAAA
TTACCTGGATGCCGAAACATGTCTATGAGGGTTCGGCGCCACTCCGACCCTGCCCGCGTGGGAGCTG
AGCGTGTGTGACAGTATTAGCGAGTGGGTACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCTGGCG
GGACGGTACAGTCTAGAGAAAGTCCCGGTATCCAAAGGCCAACTGAAGCAGTATTTCTACGAGACCAA
GTGTAATCCCATGGGTTACACCAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAATCGCAATGC
CGAACTACCAATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGATTATAA
GGATAGACTTCTGTGTATGTACTGACCATTAAGGGGAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228782 representing NM_001285421
Red=Cloning site Green=Tags(s)

MTILFLTMVISYFGCMKAAPMKEVNVHGQGNLAYPGVVRTHGTLESVNGPRAGSRGLTTTSLADTFEIVIE
ELLDEDQKVRPNEENHKDADLYTSRVMSSQVPLEPPLFLLEEYKNYLDAAANMSMRVRRHSDPARRGEL
SVCDISSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQFYETKCNPMGYTKEGCRGIDKRHWNSQC
RTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKGR

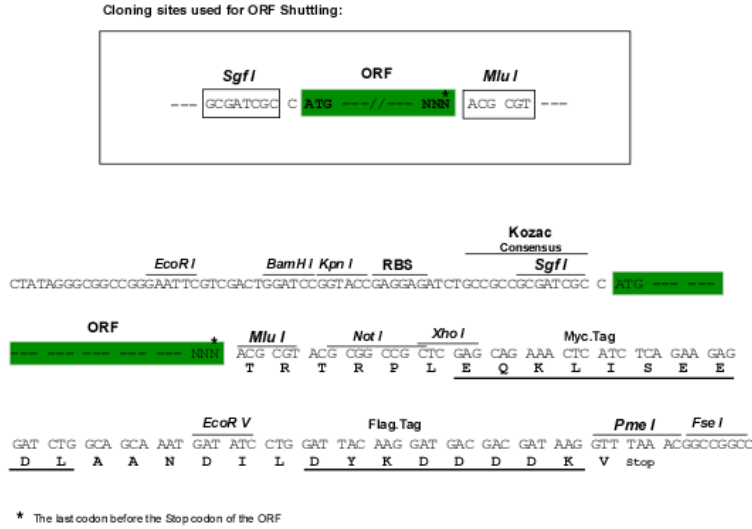
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



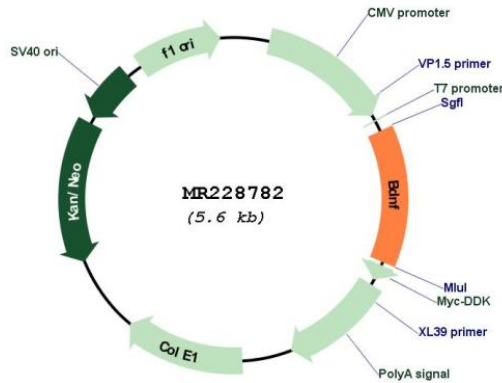
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285421

ORF Size: 747 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
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_001285421.1</u> , <u>NP_001272350.1</u>
RefSeq Size:	3941 bp
RefSeq ORF:	750 bp
Locus ID:	12064
UniProt ID:	<u>P21237</u>
Cytogenetics:	2 56.63 cM
MW:	28.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the nerve growth factor family. It is involved in the growth, differentiation and survival of specific types of developing neurons both in the central nervous system (CNS) and the peripheral nervous system. It is also involved in regulating synaptic plasticity in the CNS. Expression of a similar gene in human is reduced in both Alzheimer's and Huntington disease patients. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Oct 2015]