

Product datasheet for **RR216148**

Bdnf (NM_001270634) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdnf (NM_001270634) Rat 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: >RR216148 representing NM_001270634
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCATCCTTTTCCTTACTATGGTTATTTCACTTCGGTTGCATGAAGGCTGCGCCCATGAAAGAAG
CAAACGTCACGACAAGGCAACTTGGCCTACCCAGCTGTGCGGACCCATGGGACTCTGGAGAGCGTGAA
TGGGCCAGGGCAGGTTTCGAGAGGCTGACGACGACGTCCTGGCTGACACTTTTGAGCAGTGATCGAA
GAGCTGCTGGATGAGGACCAAGGTTTCGCGCCCAACGAAGAAAACCATAGGACGCGGACTTGTACTT
CCCGGGTATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTGCTCTTTCTGCTGGAGGAATACAAAA
TTACCTGGATGCCGAAACATGTCTATGAGGGTTCGGCGCCACTCCGACCCCGCCCGCGTGGGAGCTG
AGCGTGTGTGACAGTATTAGCGAGTGGGTACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCCGGT
GGACGGTACAGTCTGGAGAAAGTCCCGGTATCAAAAGGCCAACTGAAGCAATATTTCTACGAGACCAA
GTGTAATCCCATGGTTACACGAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAATCGCAATGC
CGAACTACCAATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGGTTTATAA
GGATAGACTTCTGTGTATGTACTGACCATTAAGGGGAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR216148 representing NM_001270634
Red=Cloning site Green=Tags(s)

MTILFLTMVISYFGCMKAAPMKEANVHGQGNLAYPAVRTHGTLESVNGPRAGSRGLTTTSLADTFEHVIE
ELLDEDQKVRPNEENHKDADLYTSRVMSSQVPLEPPLFLLEEYKNYLDAAANMSMRVRRHSDPARRGEL
SVCDISSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQFYETKCNPMGYTKEGCRGIDKRHWNSQC
RTTQSYVRALTMSKRRIGWRFIRIDTSCVCTLTIKGR

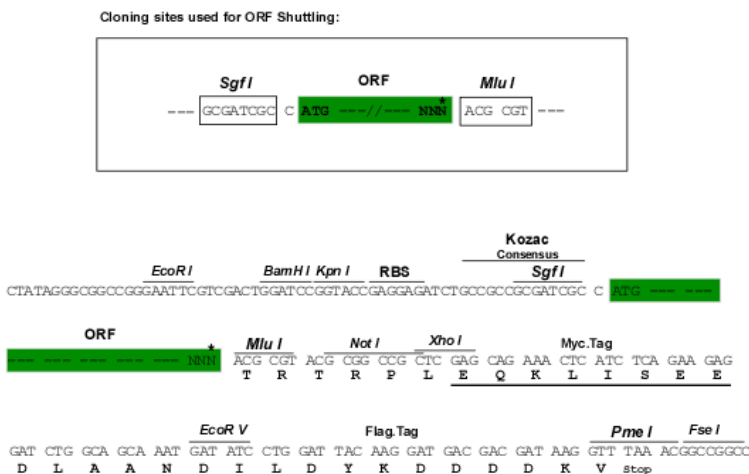
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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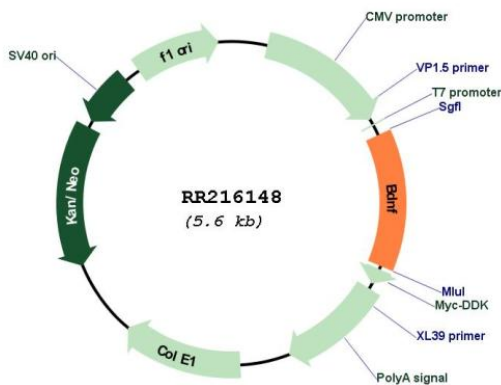
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001270634

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_001270634.1</u> , <u>NP_001257563.1</u>
RefSeq Size:	3897 bp
RefSeq ORF:	750 bp
Locus ID:	24225
UniProt ID:	<u>P23363</u>
Cytogenetics:	3q34
MW:	28.1 kDa
Gene Summary:	plays a role in the development of hippocampal long term potentiation; involved in regulation of synaptic plasticity [RGD, Feb 2006]