

Product datasheet for **RN216151**

Bdnf (NM_001270637) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdnf (NM_001270637) Rat Untagged Clone
Tag: Tag Free
Symbol: Bdnf
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216151 representing NM_001270637
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGACCATCCTTTTCCTTACTATGGTTATTTCACTTCGGTTGCATGAAGGCTGCGCCCATGAAAGAAG
CAAACGTCACGACAAGGCAACTTGGCCTACCCAGCTGTGCGGACCCATGGGACTCTGGAGAGCGTGAA
TGGGCCAGGGCAGGTTTCGAGAGGCTGACGACGACGTCCTGGCTGACACTTTTGAGCAGTGATCGAA
GAGCTGCTGGATGAGGACCAGAAGTTTCGGCCCAACGAAGAAAACCATAAGGACGCGGACTTGTACTT
CCCGGGTATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTGCTCTTTCTGCTGGAGGAATACAAAA
TTACCTGGATGCCGAAACATGTCTATGAGGGTTCGGCGCCACTCCGACCCCGCCCGCTGGGAGCTG
AGCGTGTGTGACAGTATTAGCGAGTGGGTACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCCGGT
GGACGGTACAGTCTGGAGAAAGTCCCGGTATCAAAGGCCAACTGAAGCAATATTTCTACGAGACCAA
GTGTAATCCCATGGTTACACGAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAATCGCAATGC
CGAACTACCAATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGGTTTATAA
GGATAGACTTCTGTGTATGTACTGACCATTAAGGGGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001270637
Insert Size: 750 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001270637.1, NP_001257566.1</u>
RefSeq Size:	3874 bp
RefSeq ORF:	750 bp
Locus ID:	24225
UniProt ID:	<u>P23363</u>
Cytogenetics:	3q34
Gene Summary:	plays a role in the development of hippocampal long term potentiation; involved in regulation of synaptic plasticity [RGD, Feb 2006] Transcript Variant: This variant (9, also known as IIA) has an alternate 5' exon and uses a downstream start codon, compared to variant 1. The resulting isoform (3) has a shorter N-terminus, compared to isoform 1. Variants 3-10 encode the same isoform 3.