

## Product datasheet for **RN216147**

### **Bdnf (NM\_001270633) Rat Untagged Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: Bdnf (NM\_001270633) Rat Untagged Clone  
Tag: Tag Free  
Symbol: Bdnf  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Fully Sequenced ORF: >RN216147 representing NM\_001270633  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCATCCTTTTCCTTACTATGGTTATTTCACTTCGGTTGCATGAAGGCTGCGCCCATGAAAGAAG  
CAAACGTCCACGGACAAGGCAACTTGGCCTACCCAGCTGTGCGGACCCATGGGACTCTGGAGAGCGTGAA  
TGGGCCAGGGCAGGTTTCGAGAGGTCTGACGACGACGTCCTGGCTGACACTTTTGAGCACGTGATCGAA  
GAGCTGCTGGATGAGGACCAGAAGGTTTCGGCCCAACGAAGAAAACCATAAGGACGCGGACTTGTACACTT  
CCCGGGTGATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTGCTCTTTCTGCTGGAGGAATCAAAAA  
TTACCTGGATGCCGAAACATGTCTATGAGGGTTCGGCGCCACTCGACCCCGCCCGCTGGGGAGCTG  
AGCGTGTGTGACAGTATTAGCGAGTGGTCCACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCCGGTG  
GGACGGTCACAGTCTGGAGAAAGTCCCGGTATCAAAAGGCCAACTGAAGCAATATTTCTACGAGACCAA  
GTGTAATCCCATGGGTTACACGAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAATCGCAATGC  
CGAACTACCCAATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGGTTTCATAA  
GGATAGACTTCTGTGTATGTACTGACCTGACCATTAAGGGGAAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_001270633  
Insert Size: 750 bp



[View online »](#)

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001270633.1</a></u> , <u><a href="#">NP_001257562.1</a></u>
<b>RefSeq Size:</b>	4010 bp
<b>RefSeq ORF:</b>	750 bp
<b>Locus ID:</b>	24225
<b>UniProt ID:</b>	<u><a href="#">P23363</a></u>
<b>Cytogenetics:</b>	3q34
<b>Gene Summary:</b>	<p>plays a role in the development of hippocampal long term potentiation; involved in regulation of synaptic plasticity [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (5, also known as IV) 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.</p>