

## Product datasheet for **RR216484**

### **Bdnf (NM\_001270630) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bdnf (NM\_001270630) 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:** >RR216484 representing NM\_001270630  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACCCAGTGCCTGGCGCTGGCTGAGCTCTGGGTGCCCGCCGCTGCCGCCGCGCCGGGGCGCAC  
CCGCTGGCTGGCTGTCGACCGTCCCATTCGCGCCGGGACTCCCGGCTTGAGAAGGAAACCGCTGG  
GGCGGCGGCCACCTCCGCTGGCAGGCTTTGATGAGACCGGGTCCCTCAGCTCGCCACCGCTGCTTTG  
GGCAGACGAGAAAGCGCACGGGGCCAGGGCAGGGCGCAGGGACCAGGAGCGTGACAACAATGTGACTC  
CACTGCCGGGATCCGAGAGCTTTGTGTGGACCTGAGTTCCACCAGGTGAGAAGAGTGATGACCATCCT  
TTTCCTTACTATGGTTATTTCACTTCGTTGCATGAAGGCTGCGCCATGAAAGAAGCAAACGTCCAC  
GGACAAGGCAACTTGGCTACCCAGCTGTGCGGACCCATGGGACTCTGGAGAGCGTGAATGGGCCAGGG  
CAGGTTGAGAGGTCTGACGACGACGCTCCCTGGCTGACACTTTTGAGCACGTGATCGAAGAGCTGCTGA  
TGAGGACCAGAAGGTTCCGCCAACGAAGAAAACCATAAGGACCGGACTTGTACACTTCCCGGTGATG  
CTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTGCTCTTTCTGCTGGAGGAATACAAAAATTACCTGGATG  
CCGCAAACATGTCTATGAGGGTTCGGCGCCACTCCGACCCGCCCGCTGGGGAGCTGAGCGTGTGTGA  
CAGTATTAGCGAGTGGGTACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCCGGTGGGACGGTCACA  
GTCCTGGAGAAAGTCCCGGTATCAAAAGCCAACTGAAGCAATATTTCTACGAGACCAAGTGAATCCCA  
TGGGTTACACGAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAACCTCGCAATGCCAACTACCCA  
ATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGGTTCCATAAGGATAGACACT  
TCCTGTGTATGTACTGACCATTAAAAGGGGAAGA

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216484 representing NM\_001270630  
 Red=Cloning site Green=Tags(s)

MSDP SAWRWLSSGCPPLPPRRGAPAGWLSHGPHCARDSPAWRRKPPGAARHLRLAGFDETGFPQLATAAL  
 GQTRKRTGPRAGRRDQERDNNVTPLPGIRELCVDPEFHQVRRVMTILFLTMVISYFGCMKAAPMKEANVH  
 GQGNLAYPAVRTHGTLESVNGPRAGSRGLTTTSLADTFEHVIEELLDEDQKVRPNEENHKDADLYTSRVM  
 LSSQVPLEPPLFLLEEYKNYLDAAANMSMRVRRHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVT  
 VLEKVPVSKGQLKQFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFRIDT  
 SCVCTLTIKRGR

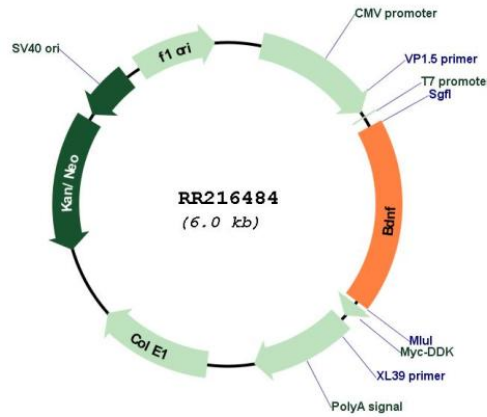
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001270630

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1086 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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>                | <a href="#">NM_001270630.1</a> , <a href="#">NP_001257559.1</a>   |
| <b>RefSeq Size:</b>           | 4018 bp   |
| <b>RefSeq ORF:</b>            | 1089 bp   |
| <b>Locus ID:</b>              | 24225   |
| <b>UniProt ID:</b>            | <a href="#">P23363</a>  |
| <b>Cytogenetics:</b>          | 3q34  |
| <b>MW:</b>                    | 40.6 kDa  |
| <b>Gene Summary:</b>          | plays a role in the development of hippocampal long term potentiation; involved in regulation of synaptic plasticity [RGD, Feb 2006]  |