

## Product datasheet for **MR226614**

### **Bdnf (NM\_007540) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bdnf (NM_007540) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bdnf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226614 representing NM_007540 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCACCAGGTGAGAAGAGTGATGACCATCCTTTTCCTTACTATGGTTATTTTCATACTTCGGTTGCA  
TGAAGCGCGGCCCATGAAAGAAGTAAACGTCCACGGACAAGGCAACTTGGCCTACCCAGGTGTCCGGAC  
CCATGGGACTCTGGAGAGCGTGAATGGGCCAGGGCAGGTTTCGAGAGGTCTGACGACGACATCACTGGCT  
GACACTTTTGAGCACGTATCGAAGAGCTGCTGGATGAGGACCAGAAGGTTTCGGCCCAACGAAGAAAAC  
ATAAGGACCGGACTTTGACACTTCCCGGGTGATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTACT  
CTTTCTGCTGGAGGAATACAAAAATTACCTGGATGCCGCAAAACATGTCTATGAGGGTTTCGGCGCCACTCC  
GACCCGCGCCGCTGGGGAGCTGAGCGTGTGTGACAGTATTAGCGAGTGGGTACAGCGGCAGATAAAA  
AGACTGCAGTGGACATGTCTGGCGGGACGGTCACAGTCTAGAGAAAGTCCCGGTATCCAAGGCCAACT  
GAAGCAGTATTTCTACGAGACCAAGTGAATCCCATGGGTTACACCAAGGAAGGCTGCAGGGGCATAGAC  
AAAAGGCACTGGAATCGCAATGCCGAATACCAATCGTATGTTTCGGGCCCTTACTATGGATAGCAAAA  
AGAGAATTGGCTGGCGATTATAAGGATAGACACTTCTGTGTGTACACTGACCATAAAAGGGGAAG  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR226614 representing NM\_007540  
Red=Cloning site Green=Tags(s)

MFHQVRRVMTILFLTMVISYFGCMKAAPMKEVNVHGQGNLAYPGVVRTHGTLESVNGPRAGSRGLTTTSLA  
 DTFEHVIEELLEDEDQKVRPNEENHKDADLYTSRVMLSSQVPLEPPLLFLLEEYKKNYLDAAANMSMRVRRHS  
 DPARRGELSVCDISSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQFYFETKCNPMGYTKEGCRGID  
 KRHWNSQCRRTTQSYVRALTMSKKRIGWRFIRIDTSCVCTLTIKRGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1334\\_d11.zip](https://cdn.origene.com/chromatograms/ja1334_d11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007540

**ORF Size:** 771 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:**

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:** [NM\\_007540.4](#), [NP\\_031566.4](#)

**RefSeq Size:** 4302 bp

**RefSeq ORF:** 774 bp

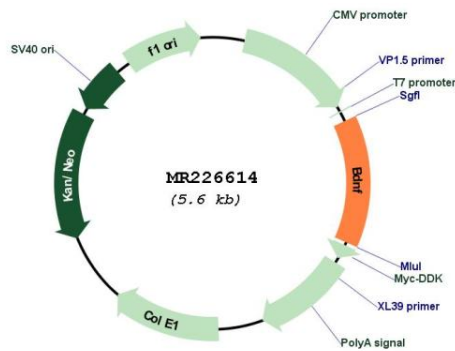
**Locus ID:** 12064

**Cytogenetics:** 2 56.63 cM

**MW:** 29.6 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]

**Product images:**



Circular map for MR226614