

Product datasheet for **MG203171**

Bdnf (NM_001048139) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bdnf (NM_001048139) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bdnf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203171 representing NM_001048139
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCATCCTTTTCCTTACTATGGTTATTTACTTTCGTTGCATGAAGGCGGCCCATGAAAGAAG
 TAAACGTCCACGGACAAGGCAACTTGGCCTACCCAGGTGTGCGGACCCATGGGACTCTGGAGAGCGTGAA
 TGGGCCAGGGCAGGTTTCGAGAGGTCTGACGACGACATCACTGGCTGACACTTTTGGAGCAGTCATCGAA
 GAGCTGCTGGATGAGGACCAGAAGGTTTCGGCCCAACGAAGAAAACCATAAGGACGCGGACTTGTACACTT
 CCCGGTGATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTACTCTTTCTGCTGGAGGAATACAAAA
 TTACTTGATGCCGCAAACATGTCTATAGGGTTTCGGCGCCACTCCGACCCTGCCCGCCGTGGGGAGCTG
 AGCGTGTGTGACAGTATTAGCGAGTGGTCCACAGCGCAGATAAAAAGACTGCAGTGGACATGTCTGGCG
 GGACGGTCACAGTCTAGAGAAAGTCCCGGTATCCAAAGGCCAACTGAAGCAGTATTTCTACGAGACCAA
 GTGTAATCCCATGGGTTACACCAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAACCTCGCAATGC
 CGAACTACCCAATCGTATGTTCCGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGATTACATA
 GGATAGACTTCTGTGTATGTACTGACCATTAAAAGGGGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG203171 representing NM_001048139
 Red=Cloning site Green=Tags(s)

MTILFLTMVISYFGCMKAAPMKEVNVHQGNLAYPGVTRHTGLESVNGPRAGSRGLTTTSLADTFEHVIE
 ELLDEDQKVRPNEENHKDADLYTSRVMLSSQVPLEPPLFLLEEYKNYLDAANMSMRVRRHSDPARRGEL
 SVCDISSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQFYETKCNPMGYTKEGCRGIDKRHWNSQC
 RTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR

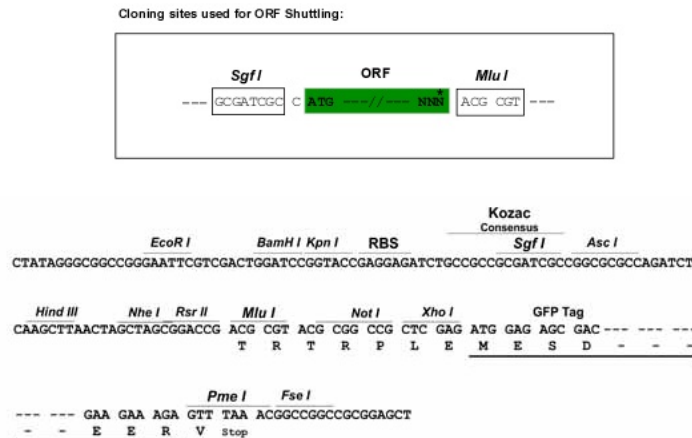
TRTRPLE - GFP Tag - V



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001048139

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:

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_001048139.1](#), [NP_001041604.1](#)

RefSeq Size: 4161 bp

RefSeq ORF: 750 bp

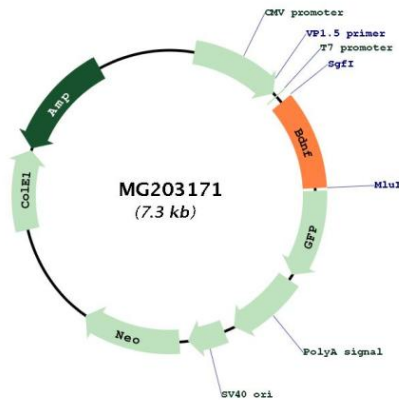
Locus ID: 12064

UniProt ID: [P21237](#)

Cytogenetics: 2 56.63 cM

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 MG203171