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Product datasheet for MC226566

Bdnf (NM_001285416) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bdnf (NM_001285416) Mouse 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:	>MC226566 representing NM_001285416 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCATCCTTTTCCTTACTATGGTTATTTCATACTTCGGTTGCATGAAGGCGGCGCCCATGAAAGAAG TAAACGTCCACGGACAAGGCAACTTGGCCTACCCAGGTGTGCGGACCCATGGGACTCTGGAGAGCGTGAA TGGGCCCAGGGCAGGTTCGAGAGGTCTGACGACGACATCACTGGCTGACACTTTTGAGCACGTCATCGAA GAGCTGCTGGATGAGGACCAGAAGGTTCGGCCCAACGAAGAAAACCATAAGGACGCGGACTTGTACACTT CCCGGGTGATGCTCAGCAGTCAAGTGCCTTTGGAGCCTCCTCTACTCTTTCTGCTGGAGGAATACAAAAA TTACCTGGATGCCGCAAACATGTCTATGAGGGTTCGGCGCCACTCCGACCCTGCCCGCCGTGGGGAGCTG AGCGTGTGTGACAGTATTAGCGAGTGGGTCACAGCGGCAGATAAAAAGACTGCAGTGGACATGTCTGGCG GGACGGTCACAGTCCTAGAGAAAGTCCCGGTATCCAAAGGCCAACTGAAGCAGTATTTCTACGAGACCAA GTGTAATCCCATGGGTTACACCAAGGAAGGCTGCAGGGGCATAGACAAAAGGCACTGGAACTCGCAATGC CGAACTACCCAATCGTATGTTCGGGCCCTTACTATGGATAGCAAAAAGAGAATTGGCTGGCGATTCATAA GGATAGACACTTCCTGTGTATGTACACTGACCATTAAAAGGGGAAGATAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001285416
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001285416.1, NP_001272345.1
RefSeq Size:	4078 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] Transcript Variant: This variant (5) differs in the 5' UTR and coding region, and uses a downstream translation start compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus compared to isoform 1. Variants 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.