

## Product datasheet for **SC324845**

### **BDNF (NM\_001143806) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BDNF (NM_001143806) Human Untagged Clone
Tag:	Tag Free
Symbol:	BDNF
Synonyms:	ANON2; BULN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for NM_001143806 edited</p> <p>ATGACCATCCTTTTCCTTACTATGGTTATTTTCATACTTTGGTTGCATGAAGGCTGCCCCC          ATGAAAGAAGCAAACATCCGAGGACAAGGTGGCTTGGCTACCCAGGTGTGCGGACCCAT          GGGACTCTGGAGAGCGTGAATGGGCCCAAGGCAGGTTCAAGAGGCTTGACATCATTGGCT          GACACTTTCGAACACATGATAGAAGAGCTGTTGGATGAGGACCAGAAAGTTCGGCCCAAT          GAAGAAAACAATAAGGACGCAGACTTGTACACGTCCAGGGTGATGCTCAGTAGTCAAGTG          CCTTTGGAGCCTCCTTCTCTTCTGCTGGAGGAATACAAAAATTACCTAGATGCTGCA          AACATGTCCATGAGGGTCCGGCGCCACTCTGACCCTGCCCGCCGAGGGGAGCTGAGCGTG          TGTGACAGTATTAGTGAGTGGGTAAACGGCGGCAGACAAAAGACTGCAGTGGACATGTGCG          GCGGGGACGGTCACAGTCCTTGAAGGTCCCTGTATCAAAAGGCCAACTGAAGCAATAC          TTCTACGAGACCAAGTGCAATCCCATGGGTTACACAAAAGAAGGCTGCAGGGGCATAGAC          AAAAGGCATTGGAATCCAGTGCCGAACCTACCCAGTCGTACGTGCGGGCCCTTACCATG          GATAGCAAAAAGAGAATTGGCTGGCGATTATAAGGATAGACACTTCTTGTGTATGTACA          TTGACCATTAAAAGGGGAAGATAG</p>
Restriction Sites:	Please inquire
ACCN:	NM_001143806
Insert Size:	700 bp
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).


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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001143806.1, NP_001137278.1</u>
<b>RefSeq Size:</b>	4042 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	627
<b>UniProt ID:</b>	<u>P23560</u>
<b>Cytogenetics:</b>	11p14.1
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Huntington's disease, MAPK signaling pathway, Neurotrophin signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (8), also known as IIb or BDNF2B, differs in the 5' UTR and represents use of an alternate promoter compared to variant 1. Variants 1, 2, 4, 5, and 7-16 encode the same isoform (a).</p>