

Product datasheet for **SC110803**

CNTN4 (NM_175612) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNTN4 (NM_175612) Human Untagged Clone
Tag:	Tag Free
Symbol:	CNTN4
Synonyms:	AXCAM; axonal-associated cell adhesion molecule; axonal cell adhesion molecule; BIG-2; CNTN4A; contactin 4; MGC33615; neural cell adhesion protein BIG-2; OTTHUMP00000147566; OTTHUMP00000147567
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_175612, the custom clone sequence may differ by one or more nucleotides

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ATGATCTGGATGCTGACAGTGCTGGCCTCAGCTGATGCCTCTAGATACGTGTTTCAGGAATGAGAGCGTGC
ACCCCTTCTCCTCTTTGAGGTTAAAGTAGGTGTCTTCAACAACAAGGAGAAGGCCCTTTCAGTCCCAC
CACGGTGGTGTATTCTGCAGAAGAAGAACCACCAACCACAGCCAGTATCTTTGCCAGAAGTCTTTCT
GCCACAGATATTGAAGTTTTCTGGCCTCCCACTGGAGAAGAATAGAGGACGAATACAAGTTATGAGG
TTAAATATTGGAGACATGAAGACAAAGAAGAAAATGCTAGAAAAATACGAACAGTTGAAATCAGACATC
AACAAAAATCACGAACCTAAAAGGCAGTGTGCTGTATCACTTAGCTGTCAAGGCATATAATTCTGCTGGG
ACAGGCCCTCTAGTGAACAGTCAATGTGACAACCCGAAAGCCACCACCAAGTCAACCCCGGAAACA
TCATATGGAATTCATCAGACTCCAAAATTATCCTGAATTGGGATCAAGTGAAGGCCCTGGATAATGAGTC
GGAAGTAAAGGATACAAAGTCTTGTACAGATGGAACAGACAAAGCAGCACATCTGTCATTGAAACAAAT
AAAACATCGGTGGAGCTTTCTTTGCCTTTTCGATGAAGATTATATAATAGAAATTAAGCCATTGAGGACG
GAGGAGATGGCAGCAGCAGTGAACAAATTCGAATTCCAAAGATATCAAATGCCTACGCGAGAGGATCTGG
GGCTTCCACTTCGAATGCATGTACGCTGTGAGCCATCAGTACAATAATGATTTCCCTCACAGCTAGGTCC
AGTTTATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_175612 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAATGGTCGAGGCTTTG GTTATGTGGTGGCCTTCCGGCCCTACGGTAAAATGATCTGGATGCTGACAGTGTGGCCT CAGCTGATGCCTCTAGATACGTGTTCAAGGAATGAGAGCGTGACCCCTTCTCTCCCTTTG AGGTTAAAGTAGGTGTCTTCAACAACAAAGGAGAAGGCCCTTTCAGTCCCACCACGGTGG TGTATTCTGCAGAAGAAGAACCACAAACCACCAGCCAGTATCTTTGCCAGAAGTCTTT CTGCCACAGATATTGAAGTTTTCTGGGCCTCCCCACTGGAGAAGAATAGAGGACGAATAC AAGGTTATGAGGTTAAATATTGGAGACATGAAGACAAAGAAGAAAATGCTAGAAAAATAC GAACAGTTGAAAATCAGACATCAACAAAAATCACGAACTTAAAAGGCAGTGTGCTGTATC ACTTAGCTGTCAAGGCATATAATTCTGCTGGGACAGGCCCTCTAGTGCAACAGTCAATG TGACAACCCGAAAGCCACCACCAAGTCAACCCCGGAAACATCATATGGAATTCATCAG ACTCCAAAATTATCCTGAATTGGGATCAAGTGAAGGCCCTGGATAATGAGTCGGAAGTAA AAGATACAAAGTCTTGTACAGATGGAACAGACAAAGCAGCACATCTGTCATTGAAACAAT AAAACATCGGTGGAGCTNTCTTTGCCTTTCGATGAAGATATATAATAGAAATTAAGCCAT TCAGCGACGGAGGAGATGGCAGCAGCAGTGAACAAATTCGAATCCAAGATATCANATGG CTANCGNAGAGGGATCTGGGGCTTNCACCTCGAATGCATGGTACGCTGTCAGCCATCAGT ACATAATGGATTTNCCTACAGCTAGGNTCCAGTTATGGACAAAGTATCTTGAGGGACTT
Restriction Sites:	NotI-NotI
ACCN:	NM_175612
Insert Size:	1100 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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_175612.1</u> , <u>NP_783301.1</u>
RefSeq Size:	3072 bp
RefSeq ORF:	849 bp
Locus ID:	152330
Cytogenetics:	3p26.3-p26.2
Protein Families:	Secreted Protein

Gene Summary:

This gene encodes a member of the contactin family of immunoglobulins. Contactins are axon-associated cell adhesion molecules that function in neuronal network formation and plasticity. The encoded protein is a glycosylphosphatidylinositol-anchored neuronal membrane protein that may play a role in the formation of axon connections in the developing nervous system. Deletion or mutation of this gene may play a role in 3p deletion syndrome and autism spectrum disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2011]

Transcript Variant: This variant (2), also known as CNTN4a, contains an alternate in-frame region in the 5' coding region and uses a downstream start codon, compared to variant 1. Isoform b has a shorter N-terminus, compared to isoform a.