

## Product datasheet for RC221480

### CNTN4 (NM\_175607) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNTN4 (NM_175607) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNTN4
Synonyms:	AXCAM; BIG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221480 representing NM_175607 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGTTGCCATGGAACTGCTGGTACTGCAATCATTCAATTTGTGCCTGCAGATGATCCACTGC  
ATGGCCCGATTTTATTCAAGAACCAAGTCTGTAAATGTTCCCTTTGGATTCTGAGGAGAAAAAGTGAA  
GCTCAATTGTGAAGTTAAAGGAAATCCAAACCTCATATCAGGTGGAAGTAAATGGAACAGATGTTGAC  
ACTGGTATGGATTTCCGCTACAGTGTGTTGAAGGGAGCTTGTGATCAATAACCCCAATAAAACCAAG  
ATGCTGGAACGTACCAGTGCACAGCGACAACTCGTTTGAACAATTGTTAGCAGAGAAGCAAAGCTTCA  
GTTTGCTTATCTTGACAACCTTAAAACAAGAACAAGAAGCACTGTGTCTGTCGGTCAAGGAATG  
GTGCTACTGTGTGGCCCGCCACCCATTCTGGAGAGCTGAGTTATGCCTGGATCTTCAATGAATACCCCT  
CCTATCAGGATAATCGCCGCTTTGTTTCTCAAGAGACTGGGAATCTGTATATTGCCAAAGTAGAAAAATC  
AGATGTTGGGAATTATACCTGTGTGGTTACCAATACCGTGACAAACCACAAGGTCTGGGGCCACCTACA  
CCACTAATATTGAGAAATGATGGAGTGTGGGTGAATATGAGCCCAAAATAGAAGTGCAGTCCCAGAAA  
CAGTCCGACTGCAAAAGGAGCAACGGTGAAGCTGGAATGCTTTGCTTTAGGAAATCCAGTACCAACTAT  
TATCTGGCGAAGAGCTGATGAAAAGCCAATAGCAAGGAAAGCCAGAAGACACAAGTCAAAATGGAATCTT  
GAGATCCCTAATTTTTCAGCAGGAGGATGCTGGTTTATATGAATGTGTAGCTGAAAATCCAGAGGGAAAA  
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GGCCATGGAAGAAAATGTCTTTTGGGAATGTAAGCAAATGGAAGGCCTAAGCCTACATACAAGTGGCTA  
AAAAATGGCGAACCTCTGCTAACTCGGGATAGAATTCAAATTGAGCAAGGAACACTCAACATAACAATAG  
TGAACCTCTCAGATGCTGGCATGTATCAGTGTGGCAGAGAATAAACATGGAGTTATCTTTTCCAACGC  
AGAGCTTAGTGTATAGCTGTAGTCCAGATTTTCAAGAACACTCTGAAAAGAGTAACCTTTGTCAA  
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GAAGGGATATATTAAGAAAATGAAAGAATTACCATTTCTGAAGATGGAACCTCAGAATCATCAACGT  
TACTAAATCAGACGCTGGGAGTTATACCTGTATAGCCACTAACCATTTTGGAACTGCTAGCAGTACTGGA



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AACTTGGTAGTAAAGATCCAACAAGGGTAATGGTACCCCTTCCAGTATGGATGTCACACTGTTGGAGAGA  
 GTATTGTTTTACCGTGCCAGGTAACGCATGATCACTCGCTAGACATCGTGTTTACTTGGTCATTTAATGG  
 ACACCTGATAGACTTTGACAGAGATGGGGACCACTTTGAAAGAGTTGGAGGGCAGGATTCAGCTGGTGAT  
 TTGATGATCCGAAACATCCAACGAAGCATGCTGGGAAATATGTCTGCATGGTCCAAACAAGTGTGGACA  
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 AATCACAGATACCACTGCTCAGCTCTCCTGGAGACCCGGGCTGACAATCACAGCCCCATCACCATGTAT  
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 GGAAGACATTCACAGCGACCGTGGTGGGTTTGAACCCCTGGGTTGAATATGAATTCGCACAGTTGCAGC  
 CAACGTGATTGGGATTGGGGAGCCAGCCGCCCTCAGAGAAACGAGAAACAGAAGAAGCTCCTCCCGAA  
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 GGCAGCAGCAGTGAACAAATTCGAATCCAAAGATATCAATGCCTACCGGAGAGGATCTGGGCTTCCA  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221480 representing NM\_175607  
 Red=Cloning site Green=Tags(s)

MRLPWELLVLQSFILCLADDSTLHGPIFIQEPSPVMFPLDSEEKVKLNCEVKGKPHIRWKLNGTDVD  
 TGMDFRYSVVEGSLINNPNTQDAGTYQCTATNSFGTIVSREAKLQFAYLDNFKRTRSTVSVRRGQGM  
 VLLCGPPPHSGELSYAWIFNEYPSYQDNRRFVSQETGNLYIAKVEKSDVGNVYTCVVTNTVNHKVLGPPT  
 PLILRNDGVMGEYEPKIEVQFPETVPTAKGATVKLECFALGNPVPTIIWRRADGKPIARKARRHKSNGIL  
 EIPNFQQEDAGLYEVAENSRGKNVARGQLTFYAQPNIQKINDIHVAMEENVFWECKANGRPKPTYKWL  
 KNGEPLLTRDRIQIEQGLNITIVNLS DAGMYQCLAENKHGVIIF SNAELSVI AVGPDFSRTLLKRVTLVK  
 VGGEVVIECKPKASPKPVYTWKGRDILKENERITISEDGNLRIINVTKSDAGSYTCIATNHFGTASSTG  
 NLVVKDPTRVMVPPSSMDVTVGESIVLPCQVTHDHSLDIVFTWSFNHGLIDFDRDGDHFERVGGQDSAGD  
 LMIRNIQLKHAGKYVCMVQTSVDRLSAAADLIVRGPPGPEAVTIDEITDTTAQLSWRPGPDNHSPITMY  
 VIQARTPFSVGWQAVSTVPELIDGKTFATVVGLNPWVEYEFRTVAANVIGIGEPSRSEKRRTEALPE  
 VTPANVSGGGSKSELVITWETVPEELQNGRFGYVAFRYPYGMWMLTVLASADASRYVFRNESVHPF  
 SPFEVKVGVFNKGEKGFSPPTVVVYSAEEEEPKPPASIFARSLSATDIEVFWASPLEKNRGRIQGYEVKY  
 WRHEDKEENARKIRTVGNQTSKITNLKGSVLYHLAVKAYNSAGTGPSSATVNVVTRKPPPSQPPGNIIV  
 NSSDSKIIILNWDQVKALDNESEVKGYKLYRWNRSSTSVIETNKTSVELSLPFDEDEYIEIKPFSDDGD  
 GSSSEQIRIPKISNAYARGSGASTSNACTLSAISTIMISLTARSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6285\\_a09.zip](https://cdn.origene.com/chromatograms/mk6285_a09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_175607

**ORF Size:** 3420 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\\_175607.3](#)

**RefSeq Size:** 5043 bp

**RefSeq ORF:** 3081 bp

**Locus ID:** 152330

UniProt ID: [Q8IWW2](#)

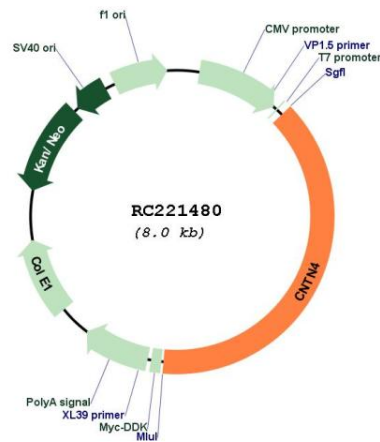
Cytogenetics: 3p26.3-p26.2

Protein Families: Secreted Protein

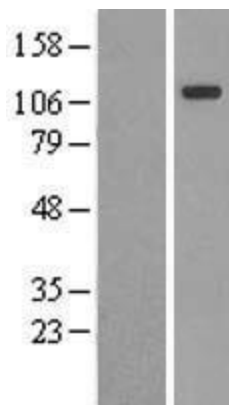
MW: 113.3 kDa

**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]

### Product images:



Circular map for RC221480



Western blot validation of overexpression lysate (Cat# [LY406239]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221480 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).