

## Product datasheet for MR219452

### Cntn4 (NM\_001109749) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cntn4 (NM_001109749) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cntn4
Synonyms:	9630050B05; Axcam; BIG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219452 representing NM_001109749 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAGGTTGCCATGGAACTGCTAGTGCTGCAATCATTTCATGTTGTGCCTTGCAGATGACTACACACTGC  
ATGGCCAGTTTTTGTCAAGAACCAAGTCATGTCATGTTTCCTTTGGATTCTGAGGAGAAAAAGTGAA  
ACTCAGTTGTGAAGTTAAAGGGAATCCAAAACCTCACATCAGGTGGAAGATAAATGGAACAGATGTTGAC  
ATTGGTATGGATTTCCGCTACAGTGTGTTGACGGCAGCTTGTGATCAATAACCCCAATAAAACCCAAG  
ATGCTGGAACGTACCAGTGCATAGCAACAACTCATTTGGAACAATTGTAAGCAGAGAAGCAAAGCTTCA  
GTTTGCTTATCTTGAAAACCTTAAGACAAGAACAAGAAGCACTGTGTGATCCGTCGAGGTCCAGGGAATG  
GTCCTTCTGTGCGGCCGCCACCCATTCTGGAGAGCTGAGCTATGCCTGGATCTTCAATGAATACCCCTT  
CCTATCAGGATAACCGCCGCTTCGTTTCTCAAGAGACTGGGAATCTGTATATTGCCAAAGTGAAAAATC  
TGATGTTGGTAATTACACCTGTGTAGTTACCAACTGTGACCAACCACAAGGTCCTGGGACCGCCACA  
CCACTAATCCTGAGAAATGATGGGGTGTGGGTGAATATGAGCCCAAAATAGAAGTACAGTTTCCAGAAA  
CCGTCCCGGCTGAGAAAGGAACAACAGTCAAACCTGGAATGCTTTGCCTTAGGAAATCCAGTCCCAACTAT  
TCTATGGCGAAGAGCTGATGGCAAGCCAATAGCAAGGAAAGCCAGAAGACATAAGTGAATGGAATCTG  
GAAATTCCTCAATTTTTCAGCAGGAAGATGCCGGTTCATATGAATGTGTGGCTGAAAACCTCCAGGCAAAA  
ACGTAGCCAAGGACAGTTGACTTTTTATGCTCAACCTAACTGGGTTCAAATAATAAATGATATCCACGT  
GGCCATGGAAGAGAGTGTCTTCTGGGAATGTAAGCAAATGGGAGGCCTAAACCTACCTACAGATGGCTA  
AAAAATGGTGACCCACTGTTAACACGGGATAGAATACAAATCGAGCAAGGAACACTCAACATAACAATAG  
TGAATCTCTCAGATGCTGGCATGTACCAGTGTGTGGCAGAAAAAACAATGGAGTTATCTTTTCCAGCGC  
TGAGCTTAGTGAATAGCTGAAAGTCCAGATTTTTCCCGAACACTCTAAAAAGAGTAACACTTGTCAA  
GTGGGAGTGAAGTTGTCATTGAGTGAAGCAAGCAAAAGCATCCCCAAGACCTGTCTACACCTGGAGAAAGG  
GAAGAGAAATATTAAGAGAAAAATGAAAGAATTACCATTTCTGAAGATGGGAACCTCAGAATCATCAATGT  
GACTAAATCTGATGCTGGAAGTTACACCTGCATAGCCACGAACCATTTTGGAACTGCCAGCAGTACTGGG



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AATGTGATTGTGAAAGACCCAACAAGGTGATGGTTCCTCCTCCAGCATGGATGTCAGTGTAGGAGAAA  
 GCATTGTTCTCCATGCCAGGTAACACATGATCACTCCCTGGACATTGTGTTTACGTGGACATTTAATGG  
 ACACCTGATAGACTTTGACAAGGATGGAGACCCTTTGAAAGAGTTGGAGGGCAGGATTCAGCTGGTGT  
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 AACTCTGTGTGCTGCGGACCTGATTGTAAGAGGTCTCCAGGTCCTCCTGAGGCTGTGACCATAGATGA  
 AATCACAGACACCCTGCTCAGCTTTCTGGAGACCAGGACCTGACAACCACAGCCCCATCACCATGTAT  
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 GGAAGACATTCACAGCAACTGTGGTGGGTTTGAATCCTTGGGTTGAATATGAATTCGCACACTGTTGCAGC  
 TAATGTGATTGGCATTGGGAACCCAGCCGGCCCTCAGAGAAACGAGGACAGAAGAGGCTCTCCCTGAA  
 GTCACCCCGGCTAACGTGAGTGGTGGTGGAGGCAGCAAATCTGAACTGGTTATAACCTGGGAGACAGTCC  
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 TCTCCCTTTGAGGTTAAGTGGGTGTCTCAATAACAAAGGGGAAGGCCCTTTCAGTCCCACCACGCTGG  
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 CTCCAGTGCAACAGTCAATGTCACGACCAGAAAGCCACCACCAAGCCAACCCCTGGAAACATCATATGG  
 AATTATCGGACTCCAAAATTACTCTGAACTGGGATCAAGTGAAGGCCCTGGATAATGAGTCAGAAGTAA  
 AAGGATACAAAGTCTTGTACAGATGGAACAGGCAAGCAGCACATCTGTCAATTGAAACCAACAAGACATC  
 AGTGGAGCTTTCATTACCTTTTCGATGAAGATTACATCATAGAGATCAAGCCATTCAGTGTGAGGAGAT  
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 CCTCCAATGCGTGTACGCTGTACGCCATCAGTACAATAATGATTTCTCTCACAGCCAGGTCTAGTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219452 representing NM\_001109749  
 Red=Cloning site Green=Tags(s)

MRLPWELLVQLQFMLCLADDYTLHGPVVFQEP SHVMFPLDSEEKVKLSCEVKG NPKPHIRWKINGTDVD  
 IGMDFRYSVVDGSLINNPNTQDAGTYQCIATNSFGTIVSREAKLQFAYLENFKRTRSTVSVRRGQGM  
 VLLCGPPPHSGELSYAWIFNEYPSYQDNRRFVSQETGNLYIAKVEKSDVGNVYTCVVTNTVNHKVLGPPT  
 PLILRNDGVMGEYEPKIEVQFPETVPAEKGTTVKLECFALGNPVPTILWRRADGKPIARKARRHKSNGIL  
 EIPNFQQEDAGSYECVAENSRGKNVAKGQLTFYAQPNWVQIINDIHVAMEESVFWECKANGRPKPTYRWL  
 KNGDPLLTRDRIQIEQGLNITIVNLS DAGMYQCAENKHGVIFSSAELSVIAESPDFSRTLLKRVTLVK  
 VGGEVVIECKPKASPRPVYTWKGREILRENERITISEDGNLRIINVTKSDAGSYTCIATNHFGTASSTG  
 NVIVKDP TKVMVPPSSMDVTVGESIVLPCQVTHDHS LDIVFTWTFNGHLIDFDKGDHFERVGGQDSAGD  
 LMIRNIQLKHAGKYVCMVQTSVDKLSVAADLIVRGPPGPEAVTIDEITDTTAQLSWRPGPDNHSPITMY  
 VIQARTPFSVGWQAVNTV PDLVDGKFTTATVVGLNPWVEYEFRTVAANVIGIGEPSRSPSEKRRTTEALPE  
 VTPANVS GGGGSKSELVITWETVPEELQNGRFGYVVAFRPHGKMIWMLTVLASADASRYVFRNESVRPF  
 SPFEVKVGVFNKGE GPFSPPTLVYSAEEEPKPPASIFARSLSATDIEVFWASPIGKNRGRIQGYEVKY  
 WRHDDKEENAKKIRT VGNQTSKITNLKGSALYHLSVKAYNSAGTGPSSATVNVVTRKPPPSQPPGNIIV  
 NSSDSKIILNWDQVKALDNESEVKGYKLYRWNRSSTSVIETNKTSVELSLPFDEDEYIEIKPFSDDGD  
 GSSSEQIRIPKISNSYARGSGASTSNACTLSAISTIMISLTARSSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001109749

**ORF Size:** 3078 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\\_001109749.1](#), [NP\\_001103219.1](#)

**RefSeq Size:** 5262 bp

**RefSeq ORF:** 3081 bp

Locus ID: 269784

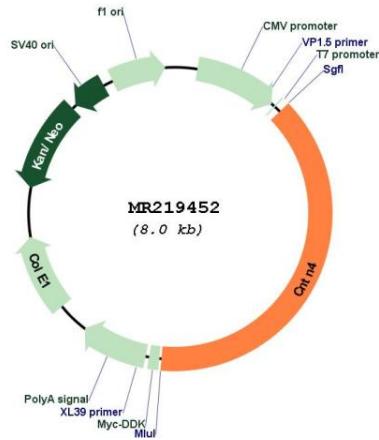
UniProt ID: [Q69Z26](#)

Cytogenetics: 6 E1

MW: 113.9 kDa

Gene Summary: Contactins mediate cell surface interactions during nervous system development. Has some neurite outgrowth-promoting activity. May be involved in synaptogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219452