

## Product datasheet for MR226639

### Cntn1 (NM\_001159647) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cntn1 (NM_001159647) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cntn1
Synonyms:	AW495098; CNTN; F3cam; usl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226639 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAATGCCATTGCTGGTCAGCCATCTCCTGCTAATCTCCTTAACATCTTGTCTAGGAGACTTTACCT  
GGCACAGAAGATATGGTCATGGAGTGTCTGAGGAGGACAAAGGATTTGGGCCATTTTGAAGAGCAGCC  
AATCAATACCATTTACCCAGAAGAGTCACTGGAAGGAAAAGTGTCACTCAACTGCCGGGCACGCCAGC  
CCATTTCCAGTTTACAAATGGAGAATGAATAACGGGGACGTGGACCTGACAAACGATCGGTACAGTATGG  
TCGGAGGAAACCTTGTTATCAACAACCCGGACAACAGAAAGACGCTGGGGTGTACTACTGCCTGGCATC  
CAACAACCTACGGAATGGTCAGGAGCACGGAGGCAACTCTGAGCTTCGGGTATCTCGACCCCTTCTCCTCC  
GAGGAGCGTCCGGAAGTGAAGGTGAAGGAAGGGGATGGTCTTCTGTGATCCTCCCTACCACT  
TCCAGATGATCTTAGCTACCGCTGGCTTCTGAATGAATTTCTGTATTTATCACCATGGATAAGCGAAG  
ATTTGTGTCTCAGACCAACGGCAATCTCTACATCGCAATGTCGAGTCTTCTGACAGAGGCAACTACTCC  
TGCTTTGTGTCCAGTCTTCTATTACAAAGAGTGTGTTTCAGCAAGTTTATCCCTCATTCCGATTCCTG  
AACGAACAACAAGCCATATCCTGCTGATATTGTGGTGCAGTTCAAGGACATATACCATGATGGGCCA  
AAATGTGACTTTAGAGTGTTCGCTCTAGGGAACCCTGTTCTGATATCCGGTGGCGGAAGGTGCTAGAA  
CCAATGCCAGCACTGCTGAGATAAGCACGTCAAGGGCTGTCCTCAAGATCTTCAACATCCAGCTAGAA  
ATGAAGCCTCTACGAGTGTGAGGCTGAGAACATCCGGGAAAAGGACAAGCACCAGGCAAGAATCTATGT  
TCAAGCGTTTCTGAGTGGGTAGAGCATATCAATGACACTGAGGTGGACATAGGCAGTGACCTCTACTGG  
CCTTGATAGCCACAGGGAAGCCATTCTACCATCAGGTGGCTGAAAAATGGATACTCGTATCACAAAG  
GGGAACTGAGACTGTATGATGTGACTTTTAAAAATGCCGGATGTACCAGTGCATAGCAGAAAACCGGTA  
TGGGTCCATTTATGCCAACGCTGAGCTCAAGATCCTGGCTTTAGCTCCAATTTTGAATGAATCCTATG  
AAGAAAAAGATCTTGGCTGCGAAAGGTGGAAGGTTATCATTGAATGTAACCCAAGGCCGACCAAAAAC  
CCAAGTTTTCATGGAGCAAAGGACGGAGTGGCTGTTAACAGCAGCAGAATACTCATATGGGAAGATGG  
TAGCTTGAAATCAATAATTACAAGAAATGATGGTGAATCTATACATGCTTTCAGAAAATAACAGA



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GGAAAAGCTAATAGCACTGGGACTCTGGTGATCACAAATCCCACACGAATTATTTTGGCCCAATCAATG
CTGACATCACTGTTGGGGAAAATGCCACCATGCAGTGTGCTGCGTCTTTCGATCCTGCTTGGACCTCAC
GTTTGTGTGGTCTTCAATGGCTACGTGATTGACTTTAACAAAGGAAATTACGCATATCCATTACCAGAGG
AATTTTATGCTCGACGCCAATGGGGAAGTCTCATCCGAAATGCGCAGCTGAAACACGCAGGCCGGTACA
CGTGCACGGCGCAGACAAATCGTGGACAATTCCTCGGCTCCGCTGACCTTGTGTTTCGAGGCCCCAGG
TCCCCAGGAGGCCTGAGAAATAGAAGACATCAGAGTACCTCTGTGGCACTGACTTGGAGCCGTGGTTCC
GACAATCACAGCCCTATCTCTAAATACACGATCCAGACCAAGACGATTCTCTCAGATGACTGGAAAGATG
CGAAGACAGATCCCCCAATCATTGAAGGAAACATGGAGTCAGCAAAAGCAGTGGATTGATCCCTTGGAT
GGAGTATGAATTCGAGTGGTGGCGACCAATACTTTAGGGACAGGAGAGCCAGCATACCTCAAACAGG
ATCAAACAGACGGTGTGCACCAAATGTGGCTCCCTCAGATGTAGGCGGTGGGGCGGAACCAACAGAG
AGCTGACAATAACGTGGGCGCCTTTGTCGAGAGAGTACCATTACGGTAACAATTTTGGTTACATAGTGGC
GTTTAAGCCATTTGATGGAGAAGAGTGGAAAGAAAGTACTGTGACTAACCAGACACTGGCCGCTACGTC
CACAAAGATGAGACCATGACCCCTCCACCGCTTTCAAGTCAAAGTCAAAGCCTTCAACAATAAAGGAG
ATGGGCCCTACAGCCTCGTAGCTGTCACTCTGCACAAGATGCTCCAGTGAAGCCCCACAGAGGT
AGGGGTCAAAGTGTATCATCTCTGAGATATCTGTCCATTGGAAGCATGTGTTAGAGAAAATTGTGAA
AGCTATCAGATTCGGTACTGGGCTGGGCATGACAAAGAAGCAGCCGCACACAGAGTTCAGGTACCAGCC
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CAGTGGCCGGATGCGGACCTTCCAGTGATGTGATCGAGACCTTACCAGAAAAGCCCTCTAGCCAAACCA
CCAAGGATCATCAGTTCGGTGTGATCTGGCTCAGGATATAATCACATGGGATCACGTTGTGGCACTAT
CCAATGAATCTACTGTGACAGGCTACAAGATACTCTATAGACCGGATGGCCAACATGACGGCAAGCTGTT
CTCAACCATAAAACACTCCATAGAAGTCCCCATCCCCAGAGACGGAGAGTATGTTGTGAGGTTTCGAGCA
CACAGCGACGGGGGAGACGGAGTCGTGTCTCAAGTCAAATTTTCAGGCGTGTCCACGCTGTCTTCGAGTC
TCCTCAGCTTGCTCCTGCCCTCCCTTGGCTTTCTGTCTACTCGGAATTC
    
```

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>MR226639 protein sequence  
Red=Cloning site Green=Tags(s)

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MKMPLLVSHLLLISLTSCLGDFTWHRRYGHGVSEEDKGF GPIFEEQPINTIYPEESLEGKVS LNCRARAS
PFPVYKWRMNGDVDL TNDRYSMVGGNLVINNPDKQKDAGVYCLASNNYGMVRSTEATLSFGYLDPFPP
EERPEVKVKEGKGMVLLCDPPYHFPDDL SYRWLLNEFPVFITMDKRRFVSQTNGNLYIANVESSDRGNYS
CFVSSPSITKSVFSKFIPLIPIPERTTKPYPADIVVQFKDIYTMGQNVTL ECFALGNPVPDIRWRKYLE
PMPSTAEISTSGAVLKIFNIQLEDEGL YECEAENIRGKDKHQARIYVQAFPEWVEHINDTEVDIGSDLYW
PCIATGKPIPTIRWLKNGYSYHKGELRL YDVT FENAGMYQCI AENAYGSIYANAELKILALAPT FEMNPM
KKKILAAKGRVIEECKPKAAPKPKFSWSKGT EWL VNSSRIL IWEDGSLE INNI TRNDGGIYTCFAENNR
GKANSTGTLVITNPTR IILAPINADITVGENATMQCAASFD PALDLTFVWSFNGYVIDFNKEITHIHYQR
NFMLDANGELLIRNAQLKHAGRYTCTAQT IVDNSSASADLVVRGPPGPPGLRIEDIRATSVALTWSRGS
DNHSPISKYTIQTKTILSDDWKDAKTD PPIIEGNMESAKAVDLIPWMEYEFVRVATNTLGTGEPSPISNR
IKTDGAAPNVAPSDVGGGGGTNRELITWAPLSREYHYGN NFGYIVAFKPF DGEWKKVTVNPD TGRYV
HKDETMT PSTAFQVKVAFNNGDGPYSLVAVINSAQDAPSEAPTEVGVKVLSSEISVHWKHVLEKIVE
SYQIRYWAGHDKEAAAHRVQVTSQEYSARLENLLPDTQYFIEVGACNSAGCGPSSDVIETFTRKAPPSQP
PRIISSVRSGSRYIITWDHVVALSNESTVTGYKILYRPDGHQDGKLFSTHKHSIEVPIPRDGEYVVEVRA
HSDGGDVVSQVKISGVSTLSSSLLSLLLPSLGF LVYSEF
    
```

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001159647

**ORF Size:** 3060 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\\_001159647.1](#), [NP\\_001153119.1](#)

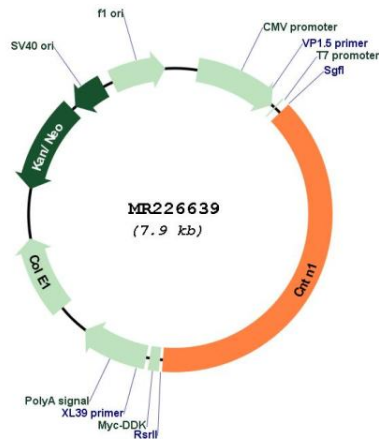
**RefSeq Size:** 5817 bp

**RefSeq ORF:** 3063 bp

**Locus ID:** 12805  
**UniProt ID:** [P12960](#)  
**Cytogenetics:** 15 46.39 cM  
**MW:** 113.4 kDa

**Gene Summary:** Contactins mediate cell surface interactions during nervous system development. Involved in the formation of paranodal axo-glia junctions in myelinated peripheral nerves and in the signaling between axons and myelinating glial cells via its association with CNTNAP1. Participates in oligodendrocytes generation by acting as a ligand of NOTCH1. Its association with NOTCH1 promotes NOTCH1 activation through the released notch intracellular domain (NICD) and subsequent translocation to the nucleus. Interaction with TNR induces a repulsion of neurons and an inhibition of neurite outgrowth.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226639