

Product datasheet for MR211507

Cntn2 (NM_177129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cntn2 (NM_177129) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cntn2
Synonyms:	a; D130012K04Rik; Ta; TAG; TAG-; TAG-1; TAG1; Tax
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211507 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCACCGCCAGGAAAAGGGCAAGCTTGCTGCTGCTGCTGCTGGCCACAATGGCTCTGGTCTCCT
CTCCAGGATGGAGTTTTCCAGGGAACCCAGCTACCTTTGGACCCGCTTTGAAGAGCAACCTGTTGG
CCTGCTATCCCAGAGGAGTCTGCAGAGGATCAGGTGACACTGGCGTGCCGTGCCGAGCTAGCCCTCCA
GCCACCTATAGGTGGAAGATGAACGGCACAGAGATGAACCTGGAACCTGGTCCCCTCACCAGCTGATGG
GGGCAACCTGGTCATCATGAGTCCCACCAAAGCACAGGATGCTGGTGTCTACCAGTGCCTAGCCTCTAA
CCCAGTAGGCACTGTCGTCAGCAAGGAAGCTGTCTCCGCTTCGGCTTTCTACAGGAATTCCTCAAGGAG
GAGAGAGACCCCGTGAAAACCCACGAGGGCTGGGGGTGATGCTGCCCTGTAACCCACCTGCCACTACC
CAGGTTTGTCTACCGCTGGCTCCTCAACGAGTCCCCAACTTCATCCCAACGGATGGGCGTCACTTCGT
GTCCCAGACCACAGGGAACCTGTACATCGCCCGCACCAATGCCTCGGACCTGGGCAACTACTCTTGCCCTG
GCTACCAGCCACCTGGACTTCTCCACCAAGAGCGTCTTCAGCAAATTCGCGCAGCTCAACCTGGCTGCTG
AAGATCCTCGACTCTTTGCTCCCAGTATCAAAGCCCGTTCCCCCAGAGACGTACGCACTGGTTGGGCA
GCAGGTCAACCCTGGAGTGCTTTGCCTTTGGAAACCCTGTTCCCAGGATCAAGTGGCGCAAAGTGGATGGT
TCCTTGTCCTCAGTGGGGCACAGCAGAGCCCACCCTGCAGATCCCAGTGTAGCTTTGAAGATGAGG
GTACCTATGAATGTGAGGCAGAGAACTCCAAGGGCCGTGACACCGTCCAGGGACGCATCATTGTGCAAGC
TCAGCCTGAGTGCTAAAGGTGATCTCAGACACAGAAGCCGACATTGGTTCCAACCTACGTTGGGCTGT
GCTGCGGCAGGCAAGCCTCGGCCATGGTGCCTGGCTGAGAAACGGGGAACCTCTGGCCTCCCAGAACC
GGTGGAGGTCTGGCTGGGACCTGCGATTCTCTAAGCTGAACCTGGAGGACTCCGGCATGTACCAGTG
TGTGGCAGAAAACAAGCATGGCACCATCTATGCCAGTGTGAGCTGGCTGTACAAGCTCTGGCCCCAGAC
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CCCGTGGCGCTCCAAAAGCTACAATACTGTGGAGCAAGGGTACTGAGATTCTGGGAAACAGTACCAGAGT
GACTGTCACTTTGGACGGCACCTTGATTATCAGAAACATCAGTCGATCGGATGAAGGCAAATATACCTGC



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TTTGCTGAGAACTTCATGGGCAAAGCCAACAGTACCGGGATCCTGTCTGTGCGAGATGCAACGAAGATCA
 CGCTAGCTCCTTCGAGTGCTGACATCAATGTGGGTGATAACCTGACCCTACAGTGCCACGCTCGCATGA
 CCCCACTATGGACCTCACGTTACCTGGACCCTGGATGACTTCCCTGTTGACTTTGATAAGCCTGGAGGT
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 AGTCCCCAGGTCCTCCTGGGGGTGTGGTGGTGGAGAGACACTGGAGACACTACTGTTACGCTTAGCTGG
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 AATGGAAGCAGGTTCCGACCAATCCTGTGAATATCGAGGCAACGCGGAACTGCCAGGTGCTGGGGCT
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 GAGCCCTGGAGAGCTTACCATCAACTGGACTCCCATGTCACGAGAGTACCAGAAATGGAGACGGCTTCGG
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 GACATGAACGGCATCCTCCTGGGATATGAGATTGCTACTGAAAAGCCGGGGACAAGAAGCTGCCGCTG
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 TGTAACTGTGAGGGCCTACAACAGGGCTGGCACCAGGACGCTAGCCCTTCAGCTGATGCCATGACCATG
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 GGGACCTGTGGTTCCTCTCCGAAATGAATCTACAGTCACTGGCTACAAGATGTTGTATCAGAATGACCT
 GCAGCCAACTCCTATGCTCCACCTACCAGCAAGAACTGGATAGAAATACCAGTACCTGAAGACATTGGT
 CACGCTCTGGTGCAGATTGAACACGGGGCTGGAGGGGATGGGATACCAGCCGAAGTCCACATTGTGA
 GAAATGGAGGCACCAGCATGATGGTGGAGAGCTCAGCCGTCGCCCTGCCATCCTGGCCGGTGTCTC
 TGCATGGTTATACTGATGCTCGCCGGATGCCAGAGGTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211507 protein sequence
 Red=Cloning site Green=Tags(s)

MGAPARKRASLLLLLATMALVSSPGWFSQGTPTATFGPVFEEQPVGLLFPEESAEDQVTLACRARASPP
 ATYRWKMGTEMNLEPGSRHQLMGGNLVIMSPTKAQDAGVYQCLASNPVGTVVSKEAVLRFGLQEFKE
 ERDPVKTHEGWGVMPCNPPAHYPGLSYRWLLNEFPNFIPTDGRHFVSQTTGNLYIARTNASDLGNYSCL
 ATSHLDFSTKSVFSKFAQLNLAEDPRLFAPSIKARFPPETYALVGQVTLCEFAFGNPVPRIKWRKVDG
 SLSPQWGTAEPTLQIPSVSFEDEGTYECEAENSKGRDVTQGRIIVQAQPEWLKVISDTEADIGSNLRWGC
 AAAGKPRPMVRLRNGEPLASQNRVEVLADLRF SKLNLED SGMYQCVAENKHGTIYASAE LAVQALAPD
 FRQNPVRRLLIPAARGGEISIPCQPRAAPKATILWSKGTEILGNSTRVTVLDGTLIIRNISRDEGKYTC
 FAENFMGKANSTGILSVRDATKITLAPSSADINVDNLTLQCHASHDPTMDLFTWTLDDFPVDFDKPGG
 HYRRASVKETIGDLTILNAQLRHGGTYTCMAQTVVDGASKEATVLRGPPGPPGGVVVRDIGDTTVQLSW
 SRGFDNHSPIAKYTLQARTPPSGKWKQVRTNPVNIENAEQAQVLGLMPWMDYEFVRSASNILGTGEP
 PSSRIRTEKAVPSVAPSGLSGGGGAPGELTINWTPMSREYQNGDGFYLLSFRRQSSSWQ TARVPGADT
 QYFVYSNDSIHPYTPFEVKIRSYNRRGDGPESLTAIVYSAAEEPKVAPAKVWAKGSSSEMNVSWEPVLQ
 DMNGILLGYEIRYWKAGDKEAAADRVRTAGLDSSARVTGLYPNTKYHVTVRAYNRAGTGPASPSADAMT
 KPPRRRPPGNISWTFSSSSLKWDVPVPLRNESTVTGYKMLYQNDLQPTPMLHLTSKNWIEIPVPEDIG
 HALVQIRTTGPGGDGIPAEVHIVRNGGTSMMVESSAVRPAHPGPVFSMVI LMLAGCQRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_177129

ORF Size: 3123 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_177129.5](#), [NP_796103.2](#)

RefSeq Size: 9535 bp

RefSeq ORF: 3123 bp

Locus ID: 21367

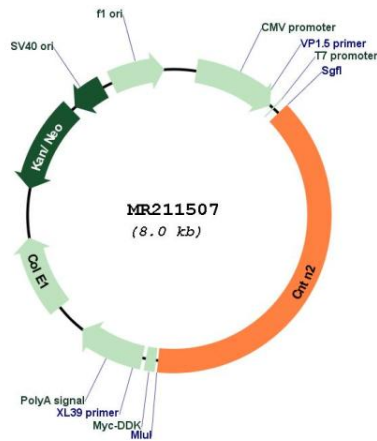
UniProt ID: [Q61330](#)

Cytogenetics: 1 E4

MW: 113.2 kDa

Gene Summary: This gene encodes a member of the contactin family of proteins, part of the immunoglobulin superfamily of cell adhesion molecules. The encoded glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein plays a role in the proliferation, migration, and axon guidance of neurons of the developing cerebellum. Mice lacking a functional copy of this gene exhibit epileptic seizures and elevated expression of A1 adenosine receptors. [provided by RefSeq, Sep 2016]

Product images:



Circular map for MR211507