

Product datasheet for **RC224263**

CNTN5 (NM_014361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	CNTN5
Synonyms:	HNB-2s; NB-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224263 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTTCCTCTTGAACTAATGCTGTTTCTGTCACTCACCATTGTGTCTTTCAGAGTATTCAAAATCTC
TTCCTGGTCTCTCCACTTCATATGCTGCTTTGTTAAGAATTAAGAAGAGTTTCATCTTCATCTCTCTTTGG
TTCCAAACACGACCCAGATACAGCAGCCCTTCATTAGGAACACTGAGTGCTTCTTCACCCAGCTGGCTA
GGGCGAGCTCAGAATTATTATCCCCCATCAATCTTTATCATTCTCAGATGCCTTCAAACAAGATGAAA
GTGTGGACTATGGGCCAGTTTTGTGCAAGAACCAGATGATATTATTTTCCAACTGATTCTGATGAAAA
GAAGGTAGCATTGAATTGTGAAGTTCGTGGCAATCCAGTTCACAGTGGCTTCGAAATGGAACA
GAAATAGATCTGGAAGTGATTATCGCTACAGTTGATAGATGGCACCTTCATTATAAGCAATCCAAGTG
AAGCAAAGGATTCTGGTCATTATCAGTGTTAGCAACCAACTGTGGGAGTATTCTTAGTAGAGAAGC
TACACTGCAGTTTGCTATCTGGGAAATTTAGTGGCCGGACAAGAAGTGCAGTCTCTGTGAGGGAAGGC
CAGGGTGCTGTTCTGATGTGCTCTCTCCGCCACATTCACCAGAGATCATCTATAGCTGGGTATTTAATG
AGTTCCTCTCTTTGTGGCGGAAGACAGCCGGCGGTTTCATCTCCAGGAGACAGGCAACCTTTATATTTT
TAAAGTCCAAACATCAGATGTTGGCAGCTATATTTGTCTGGTGAACCAACAGTGACGAATGCTAGAGTC
CTTAGTCTCCAAACGCACTCACTCTGCGTAATGATGGTGTGATGGGAGAATATGAGCCGAAATTTGAGG
TCCATTTTCTTTACGGTTACAGCTGCTAAAGGAACAACCTGTTAAGATGGAATGCTTTGCACTTGGAAC
CCCCGTTCCAAACATCAGATGATGAAGGTTAATGTTATATTTCTAGTAAGGCAGCTCTGCGGAAATCT
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CACGTGAAAAAATTCCTTTCTGTTGACAATTACAAGTATACACCTACCCACACTGGGTAGAAAACTGAA
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TATCGTTGGCTGAAGAATGGAGTACCCCTCTCACCTCAGAGTAGGGTTGAGATGGTTAATGGAGTATTGA
TGATCCACAATGTGAATCAATCAGATGCTGGAATGTATCAGTGTTTGGCTGAAAATAAGTATGGAGCCAT
TTACGCTAGTGCTGAGCTGAAGATTCTAGCTTCAGCTCCCACTTTTGCAGTGAATCAACTGAAGAAAAACA
ATAATTGTTACCAAGACCAAGAAGTTGTCATAGAGTGCAAAACCCCAAGGCTCTCCAAAACCAACCATCT



CTTGGAAGAAAGGAGACAGAGCAGTTAGAGAAAACAAAGAATAGCTATTCTTCCAGACGGGAGTCTACG
GATCCTAAATGCTTCCAAATCAGACGAGGGAAAGTACGTTTGCCGAGGGGAAAACGTCTTTGGTTCTGCT
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CAGTGGGAGAAAGCATTGTCTTAATTGCAAAGCAATTCACGATGCTAGTTTGGATGTCACCTTTCTACTG
GACTCTGAAAGGACAGCCTATTGATTTGAGGAAGAGGGTGGACATTTTGAAGCATCAGGGCCCAAGCA
TCCTCTGCAGATTTAATGATCAGGAACATCCTTCTGATGCATGCTGGGAGATATGGCTGCAGGGTACAGA
CCACAGCAGACAGTGTGCAGATGAGGCAGAACTTCTTGTAGGGGACCCCAAGGCCACCTGGGATAGT
AATTGTTGAGGAAATAACCGAAAGTACGGCCACACTGCTCTGGAGCCACAGCTGACAACACAGCCCA
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AACACGTGGCTGGAAGGAAAAAATGGTGACATCCTCTGAAGCTTCCAAATTCATTTATCGAGATGAAAGT
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CTGAAGTTGTGGGTTACAAGGTTTTTATAGGCAAGAGGGTACAGCAACAGCCAAGTTATTGAAACACA
GAACTTCAAGCAGTAGTACCACTCCAGATGCTGGAGTCTATATTATTGAAGTTCGAGCATATAGTGAA
GGAGGAGATGGAACAGTAGTTCTCAAATTAGGGTACCATCATATTAGGTGAAAAATCACAAGTGCAC
AGTCGACCCCTTCACTCTCTCCACATCTTCGTCATCAGTCACCTTGTCTTGGCATTGATGATTCCTTC
AATTCCTCG

ACGCGTACGCGGCCGTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224263 protein sequence
Red=Cloning site Green=Tags(s)

MASSWKLMLFLSVTMCLSEYSKSLPGLSTSYAALLRIKKSSSSSLFGSKTRPRYSSPSLGLSASSPSWL
GAAQNYSPINLYHSSDAFKQDESVDYGPVVFQEPDDIIFPTDSDEKKVALNCEVRGNPVPSYRWLRNGT
EIDLES DYRYSLIDGTFIISNPSEAKDSGHYQCLATNTVGSILSREATLQFAYLGNFSGRTRSAVSVREG
QGVVLMCSPPPHSPEIIYSWFNEFPFVAEDSRRFISQETGNLYISKVQTSVGVSYICLVKNTVTNARV
LSPPTPLRLNDGVMGEYEPKIEVHFPFTVTAAGTTVKMECFALGNPVPTITWMKVNGYIPSKARLRKS
QAVLEIPNVQLDDAGIYECRAENSRGKNSFRGQLQVYTYPHWVEKLNQDQDLSGSPRLWECKATGKPRPT
YRWLKNQVPLSPQSRVEMVNGVLMIHNVNQSDAGMYQCLAENKYGAIIYASAEKILASAPTFALNQLKKT
IIVTKDQEVVIECKPQGS PKPTISWKKGDRAVRENKRIAILPDGSLRILNASKSDEGKYVCRGENVFGSA
EIIASLSVKEPTRIELTPKRTETVGESIVLNCKAIHDASLDVTFYWLKGPIDFEEEGGHFESIRAQA
SSADLMIRNILLMHAGRYGCRVQTTADSVSDEAELLVRGPPGPPGIVIVEEITESTATLSWSPAADNHSP
ISSYNLQARSPFSLGWQTVKTVPEIITGDME SAMAVDLNPWVEYEFVRVATNPITGDPSTPSRMIRTNE
AVPKTAPTNSGRSGRRHELVIWEPVSEEFQNGEGFGYIVAFRPNNGTRGWKEKMTSSEASKFIYRDES
VPPLTPFEVKVGVYNNKGDGPFQIIVVICS AEGEPSAAPT DVKATSVSVEILVAWKHIKESLGRPQGF
VGYWKDMEQEDTAETVKTRGNESFVILTGLENTLYHFTVRAVNGAGYGPSPSEVSATTKKSPSPQAPSN
LRWEQGSQVSLGWEPVIPLANESEVVGKVFYRQEGHSNSQVIETQKLQAVVPLPDAGVYIEVRAYSE
GGDGTASSQIRVPSYSGGKITS AQSTLHTLSTSSSVTLLALMIPSTSW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6677_c01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014361

ORF Size: 3300 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014361.4](#)

RefSeq Size: 6472 bp

RefSeq ORF: 3303 bp

Locus ID: 53942

UniProt ID: [O94779](#)

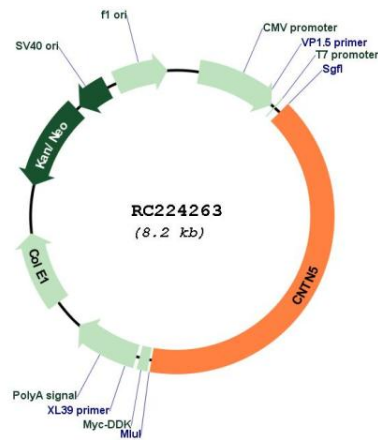
Cytogenetics: 11q22.1

Domains: ig, IGc2, IG, FN3

MW: 120.7 kDa

Gene Summary: The protein encoded by this gene is a member of the immunoglobulin superfamily, and contactin family, which mediate cell surface interactions during nervous system development. This protein is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein that functions as a cell adhesion molecule. It may play a role in the formation of axon connections in the developing nervous system. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC224263