

Product datasheet for RC220493

Contactin 1 (CNTN1) (NM_175038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Contactin 1 (CNTN1) (NM_175038) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Contactin 1
Synonyms:	F3; GP135; MYPCN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220493 representing NM_175038 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAAAATGTGGTTGCTGGTCAGTCATCTTGTGATAATATCTATTACTACCTGTTTAGCAGTTTCTGAGG
AAGACAAAGGATTTGGACCAATTTTTGAAGAGCAGCCAATCAATACCATTATCCAGAGGAATCACTGGA
AGGAAAAGTCTCACTCACTGTAGGGCAGGAGCCAGCCCTTTCCCGGTTTACAAATGGAGAATGAATAAT
GGGACGTTGATCTCACAAGTATCGATACAGTATGGTAGGAGGAAACCTTGTATCAACAACCTGACA
AACAGAAAGATGCTGGAATATACTACTGTTTAGCATCTAATAACTACGGGATGGTCAGAAGCACTGAAGC
AACCTGAGCTTTGGATATCTTGATCCTTTCCACCTGAGGAACGTCCTGAGGTCAGAGTAAAAGAAGGG
AAAGGAATGGTGCTTCTCTGTGACCCCCATACCATTTTCCAGATGATCTTAGCTATCGCTGGCTCTAA
ATGAATTTCTGTATTTATCACAATGGATAAACGGCGATTTGTGTCTCAGACAAATGGCAATCTCTACAT
TGCAAAATGTTGAGGCTCCGACAAAGGCAATTATCTGCTTTGTTTCCAGTCTTCTATTACAAAGAGC
GTGTTCCAGCAAATTCATCCCACTCATTCCAATACCTGAACGAACAACAAACCATATCCTGCTGATTTG
TAGTTCAGTTCAGGATGTATATGCATTGATGGGCCAAAATGTGACCTTAGAATGTTTTGCACCTGGAAA
TCCTGTTCCGGATATCCGATGGCGGAAGGTTCTAGAACCAATGCCAAGCACTGCTGAGATTAGCACCTCT
GGGGCTGTTCTTAAGATCTTCAATATTCAGCTAGAAGATGAAGGCATCTATGAATGTGAGGCTGAGAACA
TTAGAGGAAAGGATAAACATCAAGCAAGAATTTATGTTCAAGCATTCCCTGAGTGGGTAGAACACATCAA
TGACACAGAGGTGGACATAGGCAGTGATCTCTACTGGCCTTGTGTGGCCACAGGAAAGCCATCCCTACA
ATCCGATGGTTGAAAAATGGATATGCGTATCATAAAGGGGAATTAAGACTGTATGATGTGACTTTTGAAA
ATGCCGGAATGTATCAGTGCATAGCTGAAAACACATATGGAGCCATTTATGCAAAATGCTGAGTTGAAGAT
CTTGGCGTTGGCTCCAACCTTTTGAATGAATCCTATGAAGAAAAAGATCCTGGCTGCTAAAGGTGGAAGG
GTGATAATTGAATGCAAACTAAAGCTGCACCGAAACCAAGTTTTTCATGGAGTAAAGGGACAGAGTGCC
TTGTCAATAGCAGCAGAATACTCATTGGGAAGATGGTAGCTTGGAAATCAACAACATTACAAGGAATGA
TGGAGGTATCTATACATGCTTTGCAGAAAATAACAGAGGGAAGCTAATAGCACTGGAACCTTGTATATC



[View online »](#)

ACAGATCCTACGCGAATTATATTGGCCCAATTAATGCCGATATCACAGTTGGAGAAAACGCCACCATGC
 AGTGTGCTGCGTCCTTTGATCCTGCCTTGGATCTCACATTTGTTTGGTCCTTCAATGGCTATGTGATCGA
 TTTTAAACAAGAGAATATTCCTACTACCAGAGGAATTTATGCTGGATTCCAATGGGGAATTAATAATCCGA
 AATGCGCAGCTGAAACATGCTGGAAGATACACATGCACTGCCAGACAATTTGGACAATTTCTCAGCTT
 CAGCTGACCTTGTAGTGAGAGGCCCTCCAGGCCCTCCAGTGGTCTGAGAATAGAAGACATTAGAGCCAC
 TTCTGTGGCACTTACTTGGAGCCGTGGTTCAGACAATCATAGTCTATTTCTAAATACACTATCCAGACC
 AAGACTATTTCTTTCAGATGACTGGAAAGATGCAAAGACAGATCCCCAATTATTGAAGGAATATGGAGG
 CAGCAAGAGCAGTGGACTTAATCCCATGGATGGAGTATGAATTCGCGTGGTAGCAACCAATACACTGGG
 TAGAGGAGAGCCAGTATACCATCTAACAGAAATAAAACAGACGGTCTGCACCAATGTGGCTCCTTCA
 GATGTAGGAGGTGGAGGTGGAAGAAACAGAGAGCTGACCATAACATGGGCGCCTTTGTCAAGAGAATACC
 ACTATGGCAACAATTTTGGTTACATAGTGGCATTAAAGCCATTTGATGGAGAAGAATGGAAGAAAGTAC
 AGTTACTAATCCTGATACTGGCCGATATGTCCATAAAGATGAAACCATGAGCCCTTCCACTGCATTTCAA
 GTTAAAGTCAAGGCCCTTCAACAACAAGGAGATGGACCTACAGCCTAGTAGCAGTCATTAATTCAGCAC
 AAGACGCTCCCAGTGAAGCCCCAACAGAAGTAGGTGTAAGTCTTATCATCTTCTGAGATATCTGTTCA
 TTGGGAACATGTTTTAGAAAAAATAGTGGAAAGCTATCAGATTCGGTATTGGGCTGCCCATGACAAAGAA
 GAAGCTGCAAACAGAGTTCAAGTACCAGCCAAGAGTACTCGGCCAGGCTCGAGAACCTTCTGCCAGACA
 CCCAGTATTTTATAGAAGTCGGGCGCTGCAATAGTGCAGGGTGTGGACCTCCAAGTGACATGATTGAGGC
 TTTACCAAGAAAGCACCTCCTAGCCAGCCTCAAAGGATCATCAGTTCAGTAAGGTCTGGTTCACGCTAT
 ATAATCACCTGGGATCATGTCTGTGCACTATCAATGAATCTACAGTGACGGGATATAAGGTACTCTACA
 GACCTGATGGCCAGCATGATGGCAAGCTGATTTCAACTCACAACACTCCATAGAAGTCCCAATCCCCAG
 AGATGGAGAATACGTTGTGGAGGTTCCGCGCACAGTATGGAGGAGATGGAGTGGTGTCTCAAGTCAAA
 ATTTAGGTGCACCCACCTATCCCCAAGTCTTCTCGGCTTACTGCTGCCTGCCTTTGGCATCCTGTCT
 ACTTGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220493 representing NM_175038
 Red=Cloning site Green=Tags(s)

MKMWLLVSHLVIIISITTCVAVSEEDKGFPIFEEQPIINTIYPEESLEGKVSINCRARASFPFVYKWRMNN
 GDVLTSDRYSMVGGNLVINNPDKQKDAQIYYCLASNNYGMVRSATEATLSFGYLDPFPEERPEVRVKEG
 KGMVLLCDPPYHFPDDL SYRWLLNEFPVITMDKRRFVSQTNGNLYIANVEASDKGNYSFCVSSPSITKS
 VFSKFIPLIPIPERTTKYPADIVVQFKDVYALMGQNVTLFCFALGNPVPDIRWRKVLPEPSTAEISTS
 GAVLKIFNIQLEDEGIYECEAENIRGKDKHQARIYVQAFPEWVEHINDTEVDIGSDLYWPCVATGKPIPT
 IRWLKNGYAYHKGELRLYDVTTFENAGMYQCI AENTYGA IYANAELKILALAPT FEMNPMKKKILAAKGR
 VIECKPKAAPKPKFSWSKGTWLVN SSRILIWEDGSLEINNITRNDGGIYTCFAENNRKANSTGTLVI
 TDPTRII LAPINADITVGENATMQCAASFDPALDLTFVWSFNGYVIDFNKENIHYQRNFMLDSNGELLIR
 NAQLKHAGRYTCTAQTIVDNSSASADLVVRGPPGPPGLRIEDIRATSVALTWSRSDNHSPISKYTIQT
 KTILSDDWDAKTDPPII EGNMEARA VDLIPWMEYEFV VVATNTLGRGEP SIPSNIKT DGAAPNVAPS
 DVGGGGGRNRELITWAPLSREYHYGNF GYIVAFKPF DGEWKKVTVTNPD TGRYVHKDETMSPSTAFQ
 VKYKAFNNKGDGPYSLVAVINSAQDAPSEAPTEVGKVLSSSEISVHWEHVLEKIVESYQIRYWAHDKE
 EAANRVQVTSQEYSARLENLLPDTQYFIEVGACNSAGCGPPSDMIEAFTKKAPPSQPPRIISSVRSGRY
 IITWDHVVALSNESTVTGYKVL YRPDGGQHDGKLYSTHKHSIEVPIPRDGEYVVEVRAHSDGGDGVVSQVK
 ISGAPTLSPSLLGLLLPAFGILVYLEF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6849_c02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_175038

ORF Size: 3021 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_175038.2](#), [NP_778203.1](#)

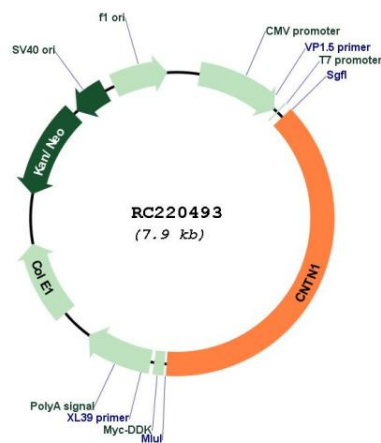
RefSeq Size: 3394 bp

RefSeq ORF: 3024 bp

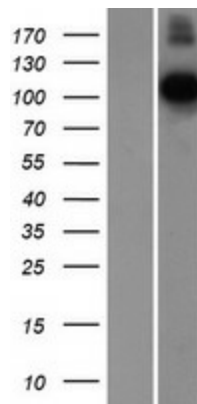
Locus ID: 1272

UniProt ID:	<u>Q12860</u>
Cytogenetics:	12q12
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	109.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the immunoglobulin superfamily. It 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. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

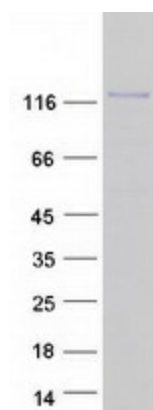
Product images:



Circular map for RC220493



Western blot validation of overexpression lysate (Cat# [LY406372]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220493 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNTN1 protein (Cat# [TP320493]). The protein was produced from HEK293T cells transfected with CNTN1 cDNA clone (Cat# RC220493) using MegaTran 2.0 (Cat# [TT210002]).