

## Product datasheet for **RG214706**

### Contactin 1 (CNTN1) (NM\_001843) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Contactin 1 (CNTN1) (NM_001843) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Contactin 1
Synonyms:	F3; GP135; MYPCN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214706 representing NM_001843 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTTGCTGGTCAGTCATCTTGTGATAATATCTATTACTACCTGTTTAGCAGAGTTTACATGGTATA  
GAAGATATGGTCATGGAGTTTCTGAGGAAGACAAAGGATTTGGACCAATTTTGAAGAGCAGCCAATCAA  
TACCATTTATCCAGAGGAATCACTGGAAGGAAAAGTCTCACTCACTGTAGGGCAGGAGCCGCCCTTTC  
CCGGTTTACAAATGGAGAATGAATAATGGGACGTTGATCTCACAAGTATCGATACAGTATGGTAGGAG  
GAAACCTTGTATCAACAACCCTGACAAACAGAAAGATGCTGGAATATACTACTGTTTAGCATCTAATAA  
CTACGGGATGGTCAGAAGCACTGAAGCAACCCTGAGCTTTGGATATCTTGATCCTTTCCACCTGAGGAA  
CGTCTGAGGTCAGAGTAAAAGAAGGAAAGGAATGGTGCTTCTCTGTGACCCCCATACCATTTTCCAG  
ATGATCTTAGCTATCGCTGGCTTCTAAATGAATTTCTGTATTTATCACAATGGATAAACGGCGATTTGT  
GTCTCAGACAAATGGCAATCTCTACATTGCAAATGTTGAGGCTTCCGACAAAGGCAATATTCTGCTTT  
GTTTCCAGTCCTTCTATTACAAAGAGCGTGTTCAGCAAATTCATCCCACTCATTCCAATACCTGAACGAA  
CAACAAAACCATATCCTGCTGATATTGTAGTTCAGTTCAGGATGATATGCATTGATGGCCAAAATGT  
GACCTTAGAATGTTTTGCACTTGGAAATCCTGTTCGGATATCCGATGGCGGAAGGTTCTAGAACCAATG  
CCAAGCACTGCTGAGATTAGCACCTCTGGGCTGTTCTTAAGATCTTCAATATTCAGTAGAAGATGAAG  
GCATCTATGAATGTGAGGCTGAGAACATTAGAGGAAAGGATAAACATCAAGCAAGAATTTATGTTCAAGC  
ATTCCCTGAGTGGGTAGAACACATCAATGACACAGAGGTGGACATAGGCAGTGATCTCTACTGGCCTTGT  
GTGGCCACAGGAAAGCCCATCCCTACAATCCGATGGTTGAAAAATGGATATGCGTATCATAAAGGGGAAT  
TAAGACTGTATGATGTGACTTTTGAAAATGCCGGAATGTATCAGTGCATAGCTGAAAACACATATGGAGC  
CATTTATGCAAATGCTGAGTTGAAGATCTTGGCGTTGGCTCCAACCTTTTGAATGAATCCTATGAAGAAA  
AAGATCCTGGCTGCTAAAGGTGGAAGGGTATAATTGAATGCAAACCTAAAGCTGCACCGAAACCAAAGT  
TTTCATGGAGTAAAGGGACAGAGTGGCTTGTCAATAGCAGCAGAATACTCATTGGGAAGATGGTAGCTT  
GAAAATCAATAACATTACAAGGAATGATGGAGGTATCTATACATGCTTTGCAGAAAATAACAGAGGGAAA



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GCTAATAGCACTGGAACCCCTGTTATCACAGATCCTACGCGAATTATATTGGCCCAATTAATGCCGATA  
 TCACAGTTGGAGAAAACGCCACCATGCAGTGTGCTGCGTCCTTTGATCCTGCCTGGATCTCACATTTGT  
 TTGGTCCTTCAATGGCTATGTGATCGATTTTAAACAAAGAGAATATTTCACTACCAGAGGAATTTATGCTG  
 GATTCCAATGGGAATTACTAATCCGAAATGCGCAGCTGAAACATGCTGGAAGATACACATGCACTGCC  
 AGACAATTGTGGACAATCTTCAGCTTCAGCTGACCTTGTAGTGAGAGGCCCTCCAGGCCCTCCAGGTGG  
 TCTGAGAATAGAAGACATTAGAGCCACTTCTGTGGCACTTACTTGGAGCCGTGGTTCAGACAATCATAGT  
 CCTATTTCTAAATACACTATCCAGACCAAGACTATTCTTTTCAGATGACTGGAAGATGCAAAGACAGATC  
 CCCAATTATTGAAGGAAATATGGAGGCGCAAGAGCAGTGGACTTAATCCCATGGATGGAGTATGAATT  
 CCGCGTGGTAGCAACCAATACACTGGGTAGAGGAGGCCAGTATACCATCTAACAGAATTAACACAGAC  
 GGTGCTGCACCAATGTGGCTCCTTCAGATGTAGGAGGTGGAGGTGGAAGAAACAGAGAGCTGACCATAA  
 CATGGGCGCCTTTGTCAAGAGAATACCACTATGGCAACAATTTTGGTTACATAGTGGCATTAAAGCCATT  
 TGATGGAGAAGAATGGAAGAAAGTCACAGTTACTAATCCTGATACTGGCCGATATGTCCATAAAGATGAA  
 ACCATGAGCCCTCCACTGCATTTCAAGTTAAAGTCAAGGCCCTCAACAACAAGGAGATGGACCTTACA  
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 CTTATCATCTTCTGAGATATCTGTTTATTGGGAACATGTTTTAGAAAAAATAGTGGAAAGCTATCAGATT  
 CGGTATTGGGCTGCCCATGACAAAGAAGAAGCTGCAAACAGAGTTCAAGTACCAGCCAAGAGTACTCGG  
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 AGTTTCAGTAAGGTCTGGTTCACGCTATATAATCACCTGGGATCATGTCGTTGCACTATCAATGAATCTA  
 CAGTGACGGGATATAAGTACTCTACAGACCTGATGGCCAGCATGATGGCAAGCTGATTTCAACTCACAA  
 ACACTCCATAGAAGTCCCAATCCCAGAGATGGAGAATACGTTGTGGAGGTTCCGCGGCACAGTATGGA  
 GGAGATGGAGTGGTGTCTCAAGTCAAAAATTTTCAGGTGCACCCACCCTATCCCAAGTCTTCTCGGCTTAC  
 TGCTGCCTGCCTTTGGCATCCTTGTCTACTTGGAAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214706 representing NM\_001843  
 Red=Cloning site Green=Tags(s)

MWLLVSHLVIIISITTLAEFTWYRRYRHHVSEEDKGFPIFEEQPINTIYPEESLEGKVSINCRARASPF  
 PYYKWRMNGDVLTSRYSMVGNLVINNPDKQKDAIYYCLASNNYGMVRSTEATLSFGYLDPPFPEE  
 RPEVRVKEGKGMVLLCDPPYHFPDDL SYRWLLNEFPVITMDKRRFVSQTNGNLYIANVEASDKGNYSF  
 VSSPSITKSVFSKFIPLIPIPERTTKYPADIVVQFKDVYALMGQNVTLFCFALGNPVPDIRWRKVLPEM  
 PSTAEISTSGAVLKIFNIQLEDEGIYECEAENIRGKDKHQARIYVQAFPEWVEHINDTEVDIGSDLYWPC  
 VATGKPIPTIRWLKNGYAYHKGELRLYDVTFENAGMYQCI AENTYGAIYANAELKILALAPT FEMNPMKK  
 KILAAKGRVIEECKPAAPKPKFSWSKGT EWL VNSSRILIWEDGSLEINNITRNDGGIYTCFAENNRGK  
 ANSTGTLVITDPTRII LAPINADITVGENATMQCAASFD PALDLTFVWSFNQYVIDFNKENIHYQRNFM  
 DSNCELLIRNAQLKHAGRYTCTAQTIVDNSSASADLVVRGPPGPPGLRIEDIRATSVALTWSRGSNDHS  
 PISKYTIQTKTILSDDWKDAKTDPPII EGNMEAAARAVDLIPWMEYEFV VATNTLGRGEP SIPSNR IKTD  
 GAAPNVAPSDVGGGGGRNRELTITWAPLSREYHYGNFNGYIVAFKPF DGEWKKVVTNPD TGRYVHKDE  
 TMSPTAFQVKVAFNKGDPYSLVAVINSAQDAPSEAPTEVGKVLSSSEISVHWEHVLEKIVESYQI  
 RYWAHDKKEEAANRVQVTSQEYSARLENLLPDTQYFIEVGACNSAGCGPPSPDMIEAFTKKAPPSQPPRII  
 SSVRSGSRYIITWDHVVALSNESTVTGYKVL YRPDQHDGKLYSTHKHSIEVPIPRDGEYVVEVRAHSDG  
 GDGVVSQVKISGAPTLSPSLLGLLLPAFGILVYLEF

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001843

**ORF Size:** 3048 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001843.2](#), [NP\\_001834.2](#)

**RefSeq Size:** 3427 bp

**RefSeq ORF:** 3057 bp

**Locus ID:** 1272

**UniProt ID:** [Q12860](#)

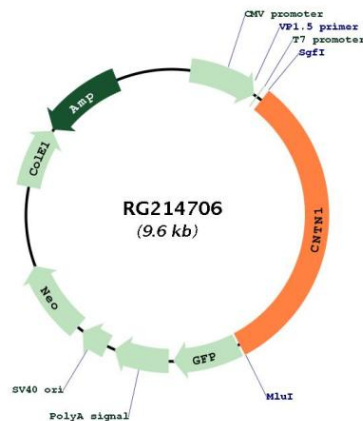
**Cytogenetics:** 12q12

**Domains:** ig, IGc2, IG, FN3

**Protein Pathways:** Cell adhesion molecules (CAMs)

**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 RG214706