

## Product datasheet for **RG215048**

### CNTN6 (NM\_014461) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | CNTN6 (NM_014461) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | CNTN6                                                                       |
| Synonyms:                 | NB3                                                                         |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG215048 representing NM_014461<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGTTGCTATGGAACTGGTAATTCTGCTGCCACTCATAAACTCTTCTGCAGGTGATGGTCTTTTAA  
GCCGTCCTATTTTACTCAGGAGCCACATGATGTCATTTTCTTTGGATTTATCAAAATCTGAGGTCAT  
CCTGAATTGTGCTGCTAACGGTTACCTTCGCCTCATTATAGGTGGAAGCAAAATGGCACAGACATTGAT  
TTTACTATGAGTTATCACTACAGGTTGGATGGAGGCAGTCTTGAATCAATAGCCCCACACAGATCAAG  
ATATTGGTATGTACAGTGCCTGGCCACCAATCTTCTGGGACAATTCTGAGTCGGAAGGCAAAGCTCCA  
ATTTGCATATATTGAAGACTTTGAACTAAAACAAGAAGCACAGTATCTGTCCGAGAAGGTCAAGGTGTG  
GTGCTTCTCTGTGGCCACCGCCACATTTTGGAGATTTATCTTATGCATGGACCTTCAATGATAACCCCT  
TATACGTCCAAGAGGACAATAGGCGATTGTATCTCAAGAGACGGGAACTTGTACATTGCCAAAGTGGA  
ACCATCAGATGTGGGCAACTACACTTGCTTTATACTAACAAGAGGCCAGAGAAGTGTCAAGGTCCA  
CCCACTCCATTAGTGCAGCGCACTGATGGTGTGATGGGGAAATGAACCAAAGATTGAAGTGCCTTTTC  
CTGAACTATACAAGCTGCAAAGGATTCATCTGTAACTGGAATGTTTTGCCCTTGAAATCCAGTCCC  
CGATATTAGTTGGAGAAGGTTGGACGGGAGCCGTTGCCAGGGAAAGTCAAGTACAGCAAATCCCAAGCT  
ATCCTTGAAATCCCGAATTCCAACAAGAAGATGAAGGCTTTTATGAGTGCATTGCAAGCAACCTTCGAG  
GAAGAAACCTTGCAAAGGTCACACTCATTTTATGCTCCTCCAGAATGGGAACAGAAAATCCAAAATAC  
ACACCTCTCTATCTATGACAACCTTGCTCTGGGAATGTAAAGCTAGTGGAAAGCCAAACCTTGGTATACA  
TGGTTAAAAAATGGTGAACGACTCAACCCAGAGGAGAGAATTCAAATAGAAAATGGGACACTCATATAA  
CGATGCTGAATGTGTCAGATTCTGGTGTGTACCAATGTGCTGCAGAAAACAAATATCAGATAATTTATGC  
AAATGCTGAATTGAGAGTTTTCAGCTCAGCTCCAGATTTCTCCAAAGTCCAGTTAAAAAAGTCTTTT  
GTTCAAGTTGGTGGGATATTGTTATCGGATGCAAAACCAATGCTTTTCCAGGGCAGCTATCTCTTGA  
AAAGAGGAACGGAGACCCTTAGACAAAGCAAAAGAATATTTCTCTGGAGGATGGCAGCCTCAAGATATA  
TAATATTACCAGGTCAGATGCTGGATCATATACATGCATAGCCACAAATCAGTTTGGCACTGCAAGAAC



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ACTGGCAGCCTCATTGTAAAAGAGAGAACTGTCATTACCGTCCCACCTTCCAAAATGGATGTTACAGTTG
GCGAGAGTATAGTGCTACCATGCCAGGTGTCCCATGACCCCTCCATTGAAGTGGTATTTGTATGGTTTTT
CAATGGAGATGTCATAGACTTAAAAAAGGAGTGGCTCATTGTTGAAAGGATTGGAGGAGAATCTGTTGGG
GATTTGATGATAAGGAATATTCAGTTACATCATTACAGGAAATATCTCTGCACAGTACAAACAACCTAG
AAAGTTTATCTGCAGTAGCCGATATCATTGTTAGAGGTCCACCAGGTCTCCTGAGGATGTGCAAGTGGA
AGACATTTCCAGTACTACTTCTCAACTAAGTTGGAGAGCAGGCCAGATAATAACAGTCCCATCAAATA
TTTACTATTAGACTCGGACACCATTTTCTGTGGTTGGCAGGCTGTTGCTACAGTTCAGAAATTCTCA
ATGGTAAGACATACAATGCAACAGTGGTTGGTTTGAGTCCTTGGGTGGAATATGAATTTCTGTGTTGTC
CGGCAACAGCATTGGGATTGGAGAACCAAGTGAACCATCAGAATTGTTAAGAACTAAAGCATCAGTCCCT
GTTGTGGCACCAGTAAACATCCATGGAGGTGGAGGAAGTCGGTCTGAACTCGTCATTACATGGGAGTCAA
TTCCAGAAGAACTGCAGAATGGGAGGGATTGGATATATCATCATGTTCCGCCAGTGGGCTCGACAAC
CTGGTCCAAGGAGAAAGTGTCTGTGGAATCATCAAGTTTGTCTACAGAAATGAAAGCATCATCCCA
CTGTCTCCCTTTGAAGTCAAAGTGGGTGTGTATAATAATGAAGGAGAAGGATCCCTGAGTACTGTGACCA
TTGTCTACTCTGGGAAGATGAACCTCACTGGCCCCAAGGGAACTTCTCTCCAGATTTTTCTGCTTC
TGAAATGGAGTTTCATGGAATGCTATTGCCTGGAATAGAAACACTGGAAGAGTGTGGGCTATGAGGTC
TTATACTGGACAGATGACTCCAAAGAATCCATGATAGGTAATAATTAGAGTCAGTGAAATGTCACAACCA
AAAACATCACGGGGCTGAAAGCTAATACCATCTACTTTGCTTCCGTAAGAGCTTACAACACTGCTGGGAC
AGGGCCCTCAAGCCCCCAGTCAATGTTACCACCAAAAAGTCTCCTCAAAGCCAACCACCAGCAAACATT
GCCTGGAAGCTGACAACTCTAAATTATGCTTGAAGTGGGAGCATGTAAAAACATGGAAAATGAGTCTG
AAGTTTGGGGTACAAGATTCTGTACCGGCAAAACAGACAGAGTAAACTCATATTTGGAAACAAACAA
TACATCAGCTGAGCTTCTGGTTCATTTGAAGAAGACTACTTAATTGAAATAAGAACAGTCAGTGATGGT
GGAGATGGAAGCAGCAGTGAGGAAATTAGGATTCAAAAATGTCAAGTTTGAGTTCCAGAGGAATTCAAT
TCTTAGAACCTAGCACCCATTTCTTCCATTGTCATTGTGATTTTCACTGTTTGTCTATTGAGCCACT
TATC

```

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215048 representing NM\_014461  
 Red=Cloning site Green=Tags(s)

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MRLLWKLIVILLPLINSSAGDGLLSRPIFTQEPHDVIFPLDLSEVILNCAANGYPSPHYRWKQNGTDID
FTMSYHYRLDGGSLAINSPHTDQDIGMYQCLATNLLGTILSRKAKLQFAYIEDFETKTRSTVSVREGQGV
VLLCGPPPHFGDLSYAWTFNDNPLYVQEDNRRFVSQETGNLYIAKVEPSDVGNVTCFITNKEAQRSVQGP
PTPLVQRTDGMGEYEPKIEVRFPETIQAADSSVKLECFALGNPVPDISWRRLDGSPLPGVKYKYSQA
ILEIPNFQDEDEGFYECIASNLGRNLAKGQLIFYAPPEWEQKIQNTHLSIYDNLLWECKASGKPNPWYT
WLKNGERLNPEERIQUIENGTLIITMLNVSDSGVYQCAENKYQIIYANAELRVLASAPDFSKSPVKKKSF
VQVGGDIVIGCKPNAFPRAAISWKRGTETLRQSKRIFLLEDGSLKIYNITRSDAGSYTCIATNQFGTAKN
TGSLIVKERTVITVPPSKMDVTVGESIVLPCQVSHDPSIEVVFVWFFNGDVIDLKKGVAFHERIGGESVG
DLMIRNIQLHHSKYLCTVQTLESLSAVADIIVRGPPGPPEDVQVEDISSTTSQLSWRAGPDNNSPIQI
FTIQRTPFSVGWQAVATVPEILNGKTYNATVVGLSPWVEYEFVRVAGNSIGIGEPSEPSSELLRTKASVP
VYAPVNIHGGGSRSELVITWESIPEELQNGEGFGYIIMFRPVGSTTSKEKVSSVESSRFVYRNESIIP
LSPFEVKVGVYNNEGEGLSTVTIVYSGEDELQAPRGTSLSQFSASEMEVSWNAIAWNRNTGRVLGYEV
LYWTDSSKESMIGKIRVSGNVTTKNITGLKANTYIFASVRYNNTAGTGPPSPPVNVTTKKSPPSPQANI
AWKL TNSKLCLNWEHVKTMESEVLGYKILYRQNRQSKTHILETNNTSAELLVPFEEDYLIEIRTVSDG
GDGSSSEIRIPKMSSLSRGIQFLEPSTHFLSIVIVIFHCFAIQPLI

```

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_014461

**ORF Size:** 3084 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\\_014461.2](#), [NP\\_055276.1](#)

RefSeq Size: 3530 bp

RefSeq ORF: 3087 bp

Locus ID: 27255

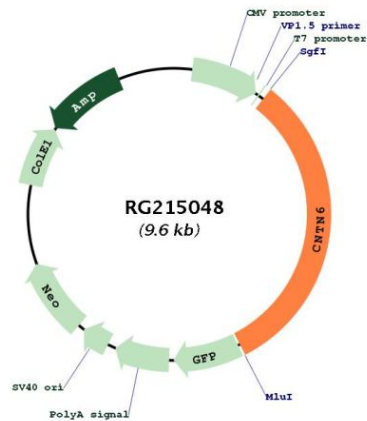
UniProt ID: [Q9UQ52](#)

Cytogenetics: 3p26.3

Domains: ig, IGc2, IG, FN3

**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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

## Product images:



Circular map for RG215048