

## Product datasheet for **MG222116**

### Cntn3 (NM\_008779) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cntn3 (NM_008779) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cntn3
Synonyms:	Pang
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222116 representing NM_008779 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTTGTCATGGAACAGTTGATCCTGCTTTCATTTCATTGGCTGCCTGGCAGGTGAACCTCTTTTAC  
AAGGCCCTGTGTTTATCAAAGAGCCCAGCAACAGTATTTTCCCTGTTGATTCAGAGGACAAAAAATAAC  
ATTAATTTGTGAAGCAAGAGGCCAACCTTCACCTCATTACAGGTGGCAGCTGAATGGCAGTGATATTGAT  
ACAAGTCTGGACCATCGTTACAACTGAATGGAGGAAATCTCATAGTTATTAACCCTAACAGAAATGGG  
ATACAGGAAGTTACCAGTGTGGTGAACGAATTCTCTTGGAAACAATAGTGAGCAGAGAAGCCAACTCCA  
GTTTGCCTATCTTGAAAATTTAAGACCAGGATGAGAAGCACTGTGTCGGTCCGTGAAGGCCAGGGAGTG  
GTGCTTCTCTGTGGACCCACCTCACTCAGGAGAACTGTCATATGCTTGGGTCTCAATGAGTATCCAT  
CATTTGTTGAAGAAGACAGTCGACGATTTGCTCTCAAGAGACAGGACACCTCTACATAGCTAAGGTGGA  
ACCATCTGATGTGGGAAATTACACATGTGTGGTGACCAGCACGGTGACAAATACCAGAGTATTGGGCTCC  
CCAACCCCTTTGGTGCTACGCTCTGATGGTGTCATGGGTGAATATGAACCCAAAAAGTCCAGTTTC  
CAGAGACTCTCCAGCAGCTAAAGGTTCAACTGTGAGGTGGAATGCTTCGCCCTGGGAAACCTGTTCC  
TCAGATTAATTGGAGAAGAAGTGTGGGATGCCGTTTCCCAACAAAATTAAGTTGAGGAAGTTCAATGGT  
ATGCTGGAAATTCAAAACCTTCCAACAGGAAGATACAGGCTCCTATGAGTGTATTGCTGAAAATTCACGAG  
GAAAAATGTGGCGAGAGGGCGGCTCACTTACTATGCAAAACCTTATTGGCTTCAACTCTTAAGAGATGT  
GGAAATGCTGTGGAGGACAGTCTTTATTGGGAATGCCGGCAAGTGGGAAGCCTAAACCTCTTATCGA  
TGGCTGAAAAATGGAGATGCCTTAGTACTAGAGGAGAGAATACAGATAGAAAATGGTGCCCTTACAATAA  
CCAACCTCAATGTGACTGACTCTGGAATGTTCCAATGTATAGCAGAAAACAAGCATGGTCTCATCTACTC  
CAGTGCTGAGCTCAAGGTAGTAGCTTCTGCTCCAGATTTTTCAAGAAACCTATGAAAAAATGGTCCAG  
GTGCAGGTGGGCAGCCTGGTGATCCTGGATTGTAACCCAGAGCCTCTCCAAGGGCACTTTCTTTCTGGA  
AGAAGGGAGACATGATGGTGCGGAGCAGGCAAGGTTTCTTTTTAAATGATGGAGGACTCAAAATCAT  
GAATGTGACTAAGGCAGACGCTGGAACCTACACCTGCACAGCAGAAAACAGTTTGGGAAAGCAAATGGC



ACAACCCACTTGGTTGTGACAGAACCTACGAGAATAATTTTGGCACCTTCAAACATGGACGTTGCTGTTG  
 GTGAGAGCGTCATTTTACCCTGCCAGGTTCAACATGATCCCTATTAGACATAATGTTTGGCTGGTATTT  
 CAATGGAGCCCTTACAGACTTTAAGAAAGATGGATCTCACTTTGAGAAAGTTGGTGGGAGTTCATCTGGT  
 GATTTAATGATCAGAAACATTCAATTGAAACACAGTGGGAAGTACGTATGTATGGTGCAGACAGGGGTGG  
 ACAGTGTTCCTCTGCAGCTGAGCTCATCGTGAGAGGTTACCTGGGCCACCGGAAAATGTGAAGGTAGA  
 TGAAAATACAGACACAACAGCCCAGCTCTCTTGGACGGAAGGCACGGACAGTCATAGCCCAGTTATATCG  
 TATGCAGTCCAAGCTAGGACGCCCTTCTCTGTGGCTGGCAAAGTGTGAGAACAGTACCTGAGGTCATTG  
 ATGGCAAGACACATACAGCTACTGTCTGGAGTTAAACCCATGGGTGGAATATGAATTTTCGATTGTAGC  
 CAGTAACAAAATCGGAGGTGGAGAACCCAGTTTACCCTCAGAAAAAGTAAGGACTGAAGAGGCAGCTCCA  
 GAAATCGCACCTTCTGAGGTGAGCGGAGGAGGTGGAAGCCGATCTGAACTAGTGATAACCTGGGATCCAG  
 TCCCTGAAGAACTACAGAATGGAGGAGGTTTTGGGTATGTGGTTGCTTTCCGCCACTTGGGGTTACCAC  
 CTGGATCCAGACAGTGGTACATCCCCAGATAACCCAAGATACGTCTTTAGGAATGAAAGCATTGTGCC  
 TTTTCCGCATATGAAGTTAAAGTGGGAGTTTACAATAACAAGGTGAAGGACCCTTAGCCCAGTGACAA  
 CTGTGTTCTCTGCAGAGGAAGAGCCTACAGTTGCCCATCTCACATCTCTGCCATAGCCTGTCTTCCCTC  
 AGAAATGAAGTTTCTTGAATACAATTCCTGGAAGTTGAGCAATGGACATTTACTGGGCTATGAGGTG  
 CGGTACTGGAACAATGGAGGAGAAGAAGATCATCCCGAAAGTAAAAGTGGCAGGAAATCAGACATCAG  
 CTGTGCTCCGAGGCCTGAAGAGCAACCTGGCCTATTACACAGCTGTCCGGGCTTACAACAGCGCAGGCGC  
 TGGTCCCTTACGCGCCACAGTTAATGCGACCACCAAGAAAACCCCTCCAGTCAGCCACCAGGAAATGTT  
 GTTTGGAATGCTACAGACACTAAAGTGCTACTTAATTGGGAACAAGTGAAGCCATGGAGAATGAATCAG  
 AAGTAACAGGCTACAAGTTTTCTATAGGACTAGCAGTCAGAATAATGTGCACGTGCTGAACACAAAATA  
 AACTTCAGCTGAAGTGTGCTGCCTATCAAAGAAGACTACATTATTGAGGTCAAGGCCACCACAGATGGA  
 GGGGATGGCACCAGTGTGAGCAGATCAGGATTCCAAGAATAACCAGTATGGATGCAAGAGGATCCACGT  
 CAGCCATTTCTAACATCCACCCTTGTGAGGTTATATGTCTGTCTACTGTTCTTTATTGAAATGCTTT  
 GTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222116 representing NM\_008779  
 Red=Cloning site Green=Tags(s)

MMLSWKQLILLSFIGLAGELLLQGPVFIKEPSNSIFPVSEDKKITLNCEARGNPSPHYRWQLNGSDID  
 TSLDHRKYLNGGNLIVINPNRNWDTGSYQCFATNSLGTIVSREAKLQFAYLENFKTRMRSTVSVREGQGV  
 VLLCGPPPHSGELSYAWVFNEYPSFVEEDSRRFVSQETGHLIYIAKVEPSDVGNITCVVTSTVNTNTRVLGS  
 PTPLVLRSDGVMGEYEPKIEVQFPETLPAKGSTVRLFCFALGNPVPQINWRRSDGMPFPNKIKLRKFNG  
 MLEIQNFQEDTGSYECIAENSRGKNVARGRLTYAKPYWLQLLRDVEIAVEDSLYWECRASGKPKPSYR  
 WLKNGDALVLEERIQIENGALITNLNVTDSGMFQCIENKHGLIYSSAELKVVASAPDFSRNPMKKMVQ  
 VQVGSVLILDCKPRASPRALSFWKKGDMVREQARVSFLNDGGLKIMNVTKADAGTYTCTAENQFGKANG  
 TTHLVVTEPTRIILAPSNMDVAVGESVILPCQVQHDPLLDIMFAWYFNGALTDFKKDGSHFKEVGGSSSG  
 DLMIRNIQLKHSKYVCMVQTGVDSVSSAAELIVRGSPGPPENVKVEITDTTAQLSWTEGTDSSHSPVIS  
 YAVQARTPFSVQWQSVRTVPEVIDGKTHATVVELNPWVEYEFRIVASNKIGGGEPSPSEKVRTEEAAP  
 EIAPSEVSGGGSRSELVITWDPVPEELQNGGGFGYVVAFRPLGVTTWIQTVVTSPPDNPRYVFRNESIVP  
 FSPYEVKVGYNKGEKGFSPVTTVFSAEIEPTVAPSHISAHLSSEIEVSWNTIPWKLNSGHLGLEYE  
 RYWNNGEEESSRKVKVAGNQTSAVLRGLKSNLAYTAVRAYNSAGAGPFSATVNATTKTPPSQPPGNV  
 VWNATDTKVLNWEQVKAMENESEVTGYKVFYRTSSQNNVHVLNTNKTSAELLLPIKEDYIIEVKATTDG  
 GDGTSSEQIRIPRITSMDARGSTSAISNIHPLSGYMSVLLFFIVNALW

TRTRPLE - GFP Tag - V

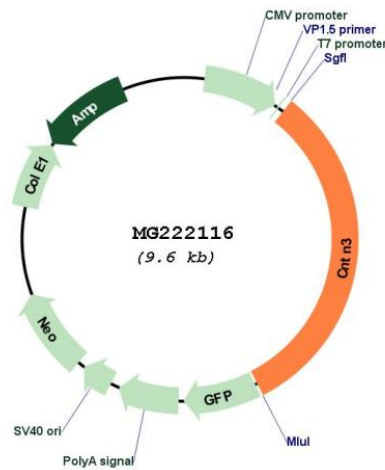
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_008779

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008779.2</a></u> , <u><a href="#">NP_032805.2</a></u>
<b>RefSeq Size:</b>	5183 bp
<b>RefSeq ORF:</b>	3087 bp
<b>Locus ID:</b>	18488
<b>UniProt ID:</b>	<u><a href="#">Q07409</a></u>
<b>Cytogenetics:</b>	6 47.52 cM
<b>Gene Summary:</b>	Contactins mediate cell surface interactions during nervous system development. Has some neurite outgrowth-promoting activity (By similarity).[UniProtKB/Swiss-Prot Function]