

Product datasheet for **RG221472**

CNTNAP5 (NM_130773) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNTNAP5 (NM_130773) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNTNAP5
Synonyms:	caspr5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221472 representing NM_130773 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCTTTACCAGGCTGACCAGCCTTTGACTTTGCTGTTCTCTGGCTTGTTGGCATTAGGATTAA
CAGCGACAACTACAACGTGATGATCCACTAGCATCCCTGCTCTCCAATGGCTTTTCCAGTTCCTC
AGACCTCACTGGCACTCACAGCCAGCTCAACTCAACTGGAGAGTTGGAAGTGGCGGTTGGTCCCCAGCA
GATTCCAATGCTCAACAGTGGCTCCAGATGGACCTGGGAAACAGAGTAGAGATTACAGCAGTGGCCACGC
AGGAAGATACGGAAGCTCTGACTGGGTGACGAGTTACAGCCTGATGTTCAAGTACAGCAGGACGCAACTG
GAAACAGTACAAACAAGAAGACAGCATCTGGACCTTTCAGGAAACATGAATGCTGACAGCGTGGTGCAC
CACAAGCTATTGCACTCAGTGAGAGCCCGATTTGTTTCGCTTTGTGCCCTGGAATGGAATCCCAGTGGGA
AGATTGGCATGAGAGTCGAGGTCTACGGATGTTCCATAAATCAGATGTTGCTGACTTTGATGGCCGAAG
CTCACTTCTGTACAGGTTCAATCAGAAGTTGATGAGTACTCTCAAAGATGTGATCTCCCTGAAGTCAAG
AGCATGCAAGGAGATGGGTCCTGTTCCATGGAGAAGGTGAGCGTGGAGACCACATCACCTTGAAGTCC
AGAAGGGGAGGCTCGCCCTACACCTCAATTTGGGTGACAGCAAAGCGCGGCTCAGCAGCAGCTTGCCTC
TGCCACCCTGGCAGCCTCCTGGATGACCAGCACTGGCACTCGGTCTCATTGAGCGGTTGGCAAGCAG
GTGAACCTCACGGTGGACAAGCACACAGCACTTCCGCACCAAGGGCGAGACGGATGCCCTAGACATTG
ACTATGAGCTTAGTTTTGGAGGAATCCAGTACCAGGAAACCTGGGACCTTTTTAAAGAAAACCTCCA
TGGATGCATCGAAAACCTTTACTACAATGGAGTAAACATAAATTGACCTGGCTAAGAGACGAAAGCATCAG
ATCTATACTGGCAATGTCACTTTTTCTGCTCCGAACCACAGATTGTGCCATCACATTTGTCAACTCCA
GCGGCAGCTATTTGCTGCTGCCCGCACCCCAATTGATGGGCTCTCAGTGAATTTCCAGTTTCAAGC
ATGGAACAAGGATGGTCTGCTTCTGTCCACAGAGCTGTCTGAGGGCTCGGAAACCCTGCTGCTGAGCCTG
GAGGGTGAATCCTGAGACTCGTGATTCAGAAAATGACAGAACCGTAGTGAATCCTCACAGGCAGCA
ACTTGAATGATGGCTGTGGCACTCGGTTAGCATCAACGCCAGGAGGAACCGCATCACGCTCACTCTGGA
TGATGAAGCAGCACCCCGGCTCCAGACAGCACTTGGGTGCAGATTTATTCTGGAATAGCTACTATTTT



[View online >](#)

GGAGGGTGCCCCGACAATCTCACCGATTCCAATGTTTAAATCCCATTAAGGCTTTC AAGGCTGCATGA
GGCTCATCTTTATTGATAACCAGCCCAAGGACCTCATTTTCAGTTCAGCAAGGTTCCCTGGGGAAATTTAG
TGATTTACACATTGATCTGTGTAGCATCAAAGACAGGTGTTTGCCAACTACTGTGAACATGGAGGAAGC
TGCTCCCAGTCTGGACTACCTTCTATTGTAAGTGCAGTGACACAAGTTACACTGGTGCCACCTGCCACA
ACTCCATCTACGAGCAATCCTGCGAGGTGTACAGGCACCAGGGGAATACAGCCGGCTTCTTCTACATCGA
CTCAGATGGCAGCGGCCACTGGGACCTCTCCAGGTGTACTGCAATATCACTGAGGACAAGATCTGGACA
TCAGTGCAGCACAAACATACAGAGCTGACCCGAGTGCGGGGCGCTAACCCCTGAGAAGCCCTATGCCATGG
CCTTGGACTACGGGGGCAGCATGGAACAGCTGGAGGCCGTGATCGACGGCTCTGAGCACTGTGAGCAGGA
GGTGGCCTACCACTGCAGGAGGTCCCGCCTGCTCAACACGCCGGATGGAACACCAATTTACCTGGTGATT
GGGCGGTCCAATGAAAGGCACCCTTACTGGGGAGGTTCCCTCCTGGGGTCCAGCAGTGTGAGTGTGGCC
TAGACGAGAGCTGCCTGGACATTCAGCACTTTTGAATTGCGACGCTGACAAGGATGAATGGACAAATGA
TACTGGCTTTCTTCTCAAAGACCCTTGCCTGTCACTCAGATAGTTATCACTGATACCGACAGATCA
AACTCAGAAGCCGCTTGAGAAATGGTCCCTTGCCTTGTATGGTGACCGACGCTTCTGGAACGCCGTCT
CATTTTATACAGAAGCCTTACCTCCACTTTCCTACCTCCATGCGGAATTCAGTGCCGATATTTCTT
CTTTTTTAAAACCACAGCATTATCCGGAGTTTTCTAGAAAATCTTGGCATTAAAGACTTCATTCGACTC
GAAATAAGCTCTCCTTCAGAGATCACCTTGGCCATCGATGTTGGGAATGGTCTGTGGAGCTGTAGTCC
AGTCTCCTTCTCTTCTGAATGACAACCAATGGCACTATGTCCGGGCTGAGAGGAACCTCAAGGAGACCTC
CCTGCAGGTGGACAACCTTCAAGGAGCACCAGGGAGACGCTCGGAGGAGGGCCATTTTTCGACTGCAGCTG
AACAGCCAGTTGTTTGTAGGGGGAACGTCATCCAGACAGAAAGGCTTCTTAGGATGCATTCGCTCCTTAC
ACTTGAATGGACAGAAAATGGACCTGGAAGAGAGGGCAAAGGTCACATCTGGAGTCAGGCCAGGCTGCC
CGGCCACTGCAGCAGCTACGGCAGCATCTGCCACAACGGGGCAAGTGTGTGGAGAAGCACAAATGGCTAC
CTGTGTGATTGCACCAATTCACCTTATGAAGGGCCCTTTTGCAAAAAGAGGTTTCTGCTGTTTTTGAGG
CTGGCAGTCGGTTACTTACATGTTTCAAGAACCCTATCCTGTGACCAAGAATATAAGCCTCATCCTC
AGCTATTTACACAGATTAGCTCCATCCAAGGAAAACATTGCACTTAGCTTTGTGACAACCCAGGCACCC
AGTCTTTTGTCTTTTATCAATTCTTCTCAGGACTTCGTGGTTGTTCTGCTCTGCAAGAATGGAAGCT
TACAGGTCGCTATCACCTAAACAAGGAAGAAACCCATGTATTACCATTGATGCAGATAACTTTGCTAA
CAGAAGGATGCACCATTGAAGATTAACCGAGAGGGAAGAGAGCTTACCATTAGATGGACCAGCAACTT
CGACTCAGTTATAACTTCTCCTCGAAGTAGAGTTCAGGGTTATAAGGTCACCTTGGGCAAAGTCA
CAGAGAATCTTGGTTTGGATTCTGAAGTTGCTAAAGCAAATGCCATGGGTTTTGCTGGATGCATGTCTC
CGTCCAGTACAACCACATAGCACCCTGAAGGCTGCCCTGCGCCATGCCACTGTCGCGCCTGTGACTGTC
CATGGGACCTTGACGGAATCCAGCTGTGGCTTCATGGTGGACTCAGATGTGAATGCAGTGACCACGGTGC
ATTCTTCATCAGATCCTTTTGGGAAGACAGATGAGCGGGAACCACTCACAAATGCTGTTGGAAGTATT
GGCAGTCATCGGAGGGGTGATAGCAGTGGTATTCATCATCTTCTGTATCATCGGCATCATGACCCGG
TTCTCTACCAGCACAAGCAGTCACATCGTACGAGCCAGATGAAGGAGAAGGAATATCCAGAAAATTTGG
ACAGTTCCTTCAGAAATGAAATTGACTTGCAAAACACAGTGAGCGAGTGTAAACGGGAATATTTTCATC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221472 representing NM_130773
 Red=Cloning site Green=Tags(s)

MDSL PRL TSVL TLL F SGL WHL GL TAT NYN CDD PLAS LL SPMA FSSSS DL TGTH SPAQL NWRV GTGGW SPA
 DSNAQQWL QMDLGNRVEITAVATQGRYGS SDWVTSYSLMFSDTGRNWKQYKQEDSIWTFAGNMNADSVVH
 HKLLHSVRARFVRFVPLEWNP SGKIGMRVEVYGC SYKSDVADFGRSSLLYRFNQKLMSTLKDVI SLKFK
 SMQGDGVL FHGEGQRGDHITL ELQKGR LALHLNLGDSKARLSSSLPSATLGSLLDDQHWSVL IERVGKQ
 VNFTVDKHTQHFRKTGETDALDIDYEL SFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNIIDLAKRRKHQ
 IYTGNTV FSCSEPQIVPITFVNSSGSYLLLPGTPQIDGLSVSFQFRTWNKDGLLSTELSESGTLLL SL
 EGGILRLVIQKMTERRVAEILTGSNLNDGLWHSV SINARRNRITLTDDEAAPPAPDSTWVQIYSGNSYF
 GGCPDNL TDSQCLNPIKAFQGCMLRIFIDNQPKDLISVQQGSLGNFSDLHIDLCSIKDRCLPNYCEHGG
 CSQSWTTFYCNCSDTSYTGATCHNSIYEQSCVYRHQGN TAGFFYIDSDGSGPLGPLQVYCNITEDIWT
 SVQHNTEL TRVRGANPEKPYAMALDYGGSMEQLEAVIDGSEHCEQEVAYHCRSRLLNTPDGPFTWWI
 GRSNERHPYWGSPPGVQCEGLDESCLDIQHF CNCDADKDEWNTDGF L SFKDHLPTVQIVITDTRS
 NSEAARWIGPLRCYGD RRFWNAV SFYTEASYLHFPTFHAEF SADISFFFKTTALSGVFL ENLGIKDFIRL
 EISSPSEITFAIDVGNPVELVQSPSLNDNQWHYVRAERNLKETSLQVDNLPRSTRETSEE GHFRLQL
 NSQLFVGGTSSRQKGF LGCIRSLHLNGQKMDLEERAKVTS GVRPGCPGHCSYSGSICHNGGKCKVEKHNGY
 LCDCTNSPYEGPFCKKEVASVFEAGTSVTYMFQEPYPVTKNISLSSAIYTD SAPSKENIALSFVTTQAP
 SLLLFINSSQDFVVVLLCKNGSLQVRYHLNKEETHVFTIDADNFANRRMHHLKINREGRELTIQMDQQL
 RLSYNFSPEVEFRVIRSLTLGKV TENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTV
 HGTLTESSCGFMVDSVNAVTTVHSSSDPFGKTDEREPLTNAVRS DSAVIGGVI AVVIFII FCIIGIMTR
 FLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI

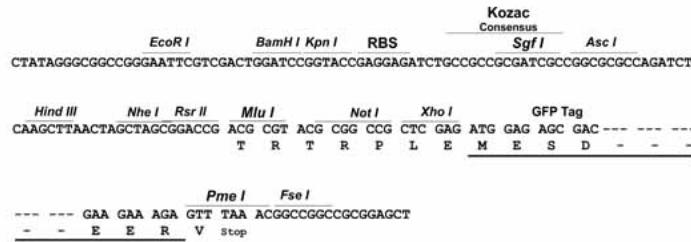
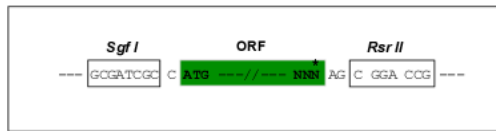
SGPTRRRLE - GFP Tag - V

Restriction Sites:

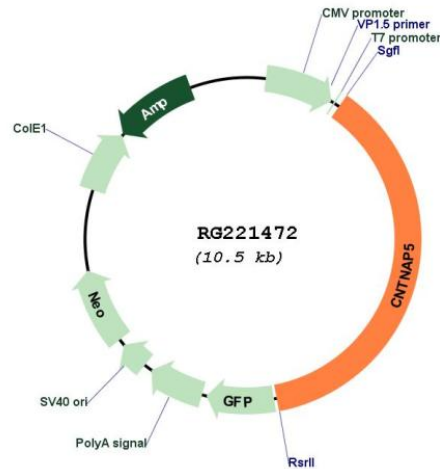
SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_130773

ORF Size: 3918 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_130773.4](#)

RefSeq Size: 5284 bp

RefSeq ORF: 3921 bp

Locus ID: 129684

UniProt ID: [Q8WYK1](#)

Cytogenetics: 2q14.3

Domains: F5_F8_type_C, LamG, EGF, EGF

Protein Families: Transmembrane

Gene Summary: This gene product belongs to the neurexin family, members of which function in the vertebrate nervous system as cell adhesion molecules and receptors. This protein, like other neurexin proteins, contains epidermal growth factor repeats and laminin G domains. In addition, it includes an F5/8 type C domain, discoidin/neuropilin- and fibrinogen-like domains, and thrombospondin N-terminal-like domains. [provided by RefSeq, Jul 2008]