

Product datasheet for MC224371

Cntnap1 (NM_016782) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cntnap1 (NM_016782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cntnap1
Synonyms:	AI841080; Caspr; NCP1; Nrnx4; p190; shm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224371 representing NM_016782 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAGTCTCCGGCTCTTCAGCATCCTGCTCGCCACGGTGGTCTCTGGAGCTTGGGGCTGGGGCTACT
ACGGTTGCAATGAGGAGCTGGTGGGCCCTCTGTATGCACGGTCTCTGGGGCTTCTTCTACTATGGACT
CTTTACCACAGCCCGCTTTGCCGGCTACATGGCATCAGTGGATGGTCCGCCGATTGGGGACCCGAAT
CCCTGGCTGCAGATCGACTTAATGAAGAAGCATCGGATCCGGGCTGTGGCCACACAGGGAGCTTTAATT
CTTGGGATTGGGTCACACGTTACATGCTGCTCTACGGGGACCGTGTGGACAGCTGGACACCAATTCTACCA
AAAAGGGCACAATGCGACCTTCTTCGGGAATGTCAATGACTCGGCAGTGGTCCGCCATGACCTTCACTAC
CACTTTACGGCTCGCTACATCCGCATCGTCCACTGGCCTGGAACCCACGCGGCAAGATTGGCCTGAGGC
TGGGCATCTATGGTTGTCCCTACACATCCAGCATCCTGTATTTGACGGCGACGATGCCATCTCATAACCG
CTTCCAGCGAGGGCCAGCCAAAGTCTTTGGGACGTGTTTCGTTTTAGTTTCAAGACAGAGGAGAAGGAT
GGGCTGTTGCTGCACACCGAGGGCTCCCAGGGGATTATGTGACGCTTGAAGTCAAGGGGCGCACCTGC
TGCTGCATGAGCCTGGGCAGCAGTCCCATCCGCCAAGACCTGGTGCACACCGGTGAGCCTTGGTGG
CGTTCTTAACGACCTAAGCTGGCACTATGTGCGGTGGATCGATATGGCCGAGATGCAAAATTTCCACCTG
GATGGTTACGCCATCACTTTGTGCTCAACGGCGACTTTGAAAGGCTGAATCTTGAAATGAGATATTCA
TCGGGGTCTAGTGGGCGCAGCCGTAAGAACCTGGCCTACCGCCATAACTTCCGTGGTGCATAGAAAA
CGTGATCTACAACCGGATCAACATTGCAGAAATGGCAGTGTGCGCCATTCGCGGATCACCTTTGAGGGT
AATGTGGCTTTCCGTTGCTTGGATCCCCTTCCACACCCCATCACTTCGGAGGCCCTCACAACCTCGTCC
AAGTGCCTGGCTTTCCACGCGGAGGACGCTTAGCCGTCTTTTTCGTTTCCGCACCTGGGACCTCACAGG
GCTGCTCCTTTCTCCACTTGGGGACGGGCTGGTGCATGTGGAGCTGATGCTTAGCGAAGGGCAAGTG
AATGTATCCATCGCGCAGACTGGCCGCAAGAAGCTTCAGTTTGTGCTGGTACCGCCTGAATGATGGCT
TCTGGCAGAGGTGAACTTTGTGGCACAGGAAAACCATGCAGTCATCAGTATTGATGATGTGAAGGGGC
AGAGGTACAGGTTTCATACCCACTGCTGATCCGCACAGGGACTTCATACTTCTTTGGTGGTTGTCCAAA
CCAGCCAGTCGATGGGGCTGCCACTCCAACCAGACAGCATTCCATGGCTGCATGGAGCTGCTCAAGGTGG



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ACGGTCAACTGGTCAACCTCACTCTGGTAGAGTTTCGGAAGCTCGGTTATTTTGCTGAGGTCCTCTTTGA
CACATGTGGCATCACAGACAGATGCAGCCCTAACATGTGTGAGCATGACGGACGATGCTACCAGTCTTGG
GATGACTTCATCTGCTACTGCGAATTACCGGCTACAAGGGAGTTACCTGCCACGAACCATTGTACAAGG
AGTCTGTGAGGCCTATCGGCTCAGTGGGAAATATTCTGGAACTACACCATTGATCCTGATGGCAGTGG
ACCCCTGAAGCCGTTTGTGGTGTATTGTGACATCCGAGAGAACCAGCGTGGACAGTTGTGCGGCATGAC
AGGCTGTGGACCACTCGAGTGACTGGTTCAGCATGGACCGGCCCTTCTGGGGCCATCCAATACTGGA
ATGCCCTGGGAGGAAGTCAGCGCTCTGGCCAATGCTTCCCAACTGTGAGCAGTGGATCGAGTTTTCT
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GAACAGCATTCTACTGGGGAGGCTCCCAGCCTGGGATCCAGCGCTGTGCCTGTGGGCTGGACCAGAGCT
GTGTGGACCCTGCACTGCACTGCAATTGTGATGCCGACCAGCCACAGTGGAGAACAGACAAGGGGCTCCT
GACCTTTGTAGACCATCTGCCTGTCACTCAGGTAGTGGTAGGTGATACAAACCGCTCAAATCTGAAGCT
CAGTTCTCTGAGGCCTCTGCGCTGCTATGGTGACCGCAATTCCTGGAACACCATCTCCTTCCACTG
GAGCTGCACTGCGTTTCCCTCCGATCCGAGCCAACCACAGCCTCGATGTCTATTCTACTCAGGACCTC
GGCTCCCTCGGGTGTCTCCTAGAGAACATGGGGGTCTTTCTGCCGGTGGCCGACCTACGTGAGA
GTGGAGCTCAACACATCCCGGATGTGGTCTTTGCCTTTGATATTGGCAATGGGGATGAGAACCTGACAG
TGCACTCGGATGACTTTGAGTTAACGATGATGAGTGGCATTGGTCCGAGCTGAAATCAACGTGAAGCA
GGCCCGGCTGCGAGTGGATCACCGGCCCTGGGTGCTAAGGCCATGCCCTGCAGACCTACATCTGGCTG
GTGATGACCAACCCCTCTATGTGGATCTGCAGAGCTTAAGAGGCGCCCTTTTGTGGGCTGCTTGAAGG
CCATGCGTTTGAATGGAGTGACTCTGAACTGGAGGGCCGTGCCAATGCCTCTGAGGGCACCTTCCCAA
CTGCACCGGCCACTGCACCCACCCCGGTTCCCTGTTTCCACGGAGGACGCTGTGTGGAGCGATACAGC
TACTACACATGTGACTGTGACCTCACAGCTTTGATGGCCATACTGCAATCACGATATTGGTGGATTCT
TTGAGACCGGCACATGGATGCGCTAACCTCCAGTCAGCACTGCGCTCTGCAGCCCGGAGTTCTCACA
CATGCTGAGCCGGCCAGTGCCGGCTATGAGCCTGGCTATGTTCCAGGCTACGACACTCTGGTTACGTG
CCTGGATACCACGGCCCTGGGTACCGACTGCCCGAGTACCCGAGGCCCGGCCAGTCCCGGGTATA
GGGGCCCTGTCTACAATGTTACTGGAGAGGAGTCTCCTTCAGCTTACGACCAACTCTGCTCCTGCCGT
CCTGCTCTATGTGAGCTCCTTTGTACGTGACTACATGGCTGTGCTCATCAAGGAAGACGGGACCCTACAG
CTTCGGTATCAGTTGGGACCCAGTCCCTATGTGTACCAGCTAACCACCCGGCCAGTACTGATGGTCAGC
CCCATAGTGTCAACATCACCCGGGTCTACCGAACCTCTTATCCAGGTGGACTACTTCCCGCTGACAGA
ACAGAAGTTCTCTCCTGTTGGACAGCCAGCTGGACTCACCAAGGCCCTGTATCTAGGGCGTGTGATG
GAGACAGGAGTATTGACCCAGAGATTCAGCGGTACAACACCCAGGTTTCTCAGGCTGCCTGTCTGGT
TCCGGTTCAACAATGTGGCTCCTCTCAAGACCCATTTCCGAACCCCTCGGCCATGACTGCTGAGCTGGC
GGAGGCCATGCGGTTCAAGGAGAACTGTCAGAATCTAACTGTGGAGCTATGCCACGCCTTGTCTCTGAG
GTGCCACCAGAATTGATCCCTGGTACCTGCCTCCAGATTTCCATACTACCATGACGACGGATGGATTG
CCATACTTAGGTTTTTTGGTGGCCTTCTGCTGCTGGGGCTTGTGGGAATGCTGGTGTGTTCTATCT
GCAAAATCATCGATACAAGGGCTCTACCAACCAACGAGCCCAAGGCCACCCAGATCCCATCTGGC
GGCAAAGTCCCTCCCTCCCTCAGGCCCTGCCAGGCCCTGCCCTACTCCAGCTCCACACAGCTTC
CAACCCAGCCCCAGCCCCAGCCCCAGCCCTCTGGCCAGGCCCCAGAGACCAGAACCTCCCCCA
GATCTTGGAGGAGTCCAGGTCTGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_016782

Insert Size:

4158 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_016782.2 , NP_058062.2
RefSeq Size:	5360 bp
RefSeq ORF:	4158 bp
Locus ID:	53321
UniProt ID:	O54991
Cytogenetics:	11 D
Gene Summary:	Required, with CNTNAP2, for radial and longitudinal organization of myelinated axons (PubMed:25378149). Plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Demarcates the paranodal region of the axo-glial junction. In association with contactin involved in the signaling between axons and myelinating glial cells (PubMed:25378149, PubMed:11395000).[UniProtKB/Swiss-Prot Function]