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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; Nrxn4; p190; shm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224371 representing NM_016782
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAGTCTCCGGCTCTTCAGCATCCTGCTCGCCACGGTGGTCTCTGGAGCTTGGGGCTGGGGCTACT
ACGGTTGCAATGAGGAGCTGGTGGGGCCTCTGTATGCACGGTCTCTGGGCGCTTCTTCCTACTATGGACT
CTTTACCACAGCCCGCTTTGCCCGGCTACATGGCATCAGTGGATGGTCGCCCCGGATTGGGGACCCGAAT
CCCTGGCTGCAGATCGACTTAATGAAGAAGCATCGGATCCGGGCTGTGGCCACACAGGGAGCTTTTAATT
CTTGGGATTGGGTCACACGTTACATGCTGCTCTACGGGGACCGTGTGGACAGCTGGACACCATTCTACCA
AAAAGGGCACAATGCGACCTTCTTCGGGAATGTCAATGACTCGGCAGTGGTCCGCCATGACCTTCACTAC
CACTTTACGGCTCGCTACATCCGCATCGTGCCACTGGCCTGGAACCCACGCGGCAAGATTGGCCTGAGGC
TGGGCATCTATGGTTGTCCCTACACATCCAGCATCCTGTATTTTGACGGCGACGATGCCATCTCATACCG
CTTCCAGCGAGGCGCCAGCCAAAGTCTTTGGGACGTGTTCGCTTTTAGTTTCAAGACAGAGGAGAAGGAT
GGGCTGTTGCTGCACACCGAGGGCTCCCAGGGGGATTATGTGACGCTTGAACTGCAAGGGGCGCACCTGC
TGCTGCACATGAGCCTGGGCAGCAGTCCCATCCAGCCAAGACCTGGTCACACCACGGTGAGCCTTGGTGG
CGTTCTTAACGACCTAAGCTGGCACTATGTGCGGGTGGATCGATATGGCCGAGATGCAAATTTCACCCTG
GATGGTTACGCCCATCACTTTGTGCTCAACGGCGACTTTGAAAGGCTGAATCTTGAAAATGAGATATTCA
TCGGGGGTCTAGTGGGCGCAGCCCGTAAGAACCTGGCCTACCGCCATAACTTCCGTGGCTGCATAGAAAA
CGTGATCTACAACCGGATCAACATTGCAGAAATGGCAGTGATGCGCCATTCGCGGATCACCTTTGAGGGT
AATGTGGCTTTCCGTTGCTTGGATCCCGTTCCACACCCCATCAACTTCGGAGGCCCTCACAACTTCGTCC
AAGTGCCTGGCTTTCCACGCCGAGGACGCTTAGCCGTCTCTTTTCGTTTCCGCACCTGGGACCTCACAGG
GCTGCTCCTTTTCTCCCACTTGGGGGACGGGCTGGGTCATGTGGAGCTGATGCTTAGCGAAGGGCAAGTG
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TCTGGCACGAGGTGAACTTTGTGGCACAGGAAAACCATGCAGTCATCAGTATTGATGATGTGGAAGGGGC
AGAGGTCAGGGTTTCATACCCACTGCTGATCCGCACAGGGACTTCATACTTCTTTGGTGGTTGTCCCAAA
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CCAGCCAGTCGATGGGGCTGCCACTCCAACCAGACAGCATTCCATGGCTGCATGGAGCTGCTCAAGGTGG
ACGGTCAACTGGTCAACCTCACTCTGGTAGAGTTTCGGAAGCTCGGTTATTTTGCTGAGGTCCTCTTTGA
CACATGTGGCATCACAGACAGATGCAGCCCTAACATGTGTGAGCATGACGGACGATGCTACCAGTCTTGG
GATGACTTCATCTGCTACTGCGAACTTACCGGCTACAAGGGAGTTACCTGCCACGAACCATTGTACAAGG
AGTCCTGTGAGGCCTATCGGCTCAGTGGGAAATATTCTGGAAACTACACCATTGATCCTGATGGCAGTGG
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AGGCTGTGGACCACTCGAGTGACTGGTTCCAGCATGGACCGGCCCTTTCTGGGGGCCATCCAATACTGGA
ATGCCTCCTGGGAGGAAGTCAGCGCTCTGGCCAATGCTTCCCAACACTGTGAGCAGTGGATCGAGTTTTC
CTGCTACAATTCCCGGCTGCTCAACACTGCAGGAGGCTACCCCTACAGCTTTTGGATTGGCCGCAATGAG
GAACAGCATTTCTACTGGGGAGGCTCCCAGCCTGGGATCCAGCGCTGTGCCTGTGGGCTGGACCAGAGCT
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CAGTTCTTCCTGAGGCCTCTGCGCTGCTATGGTGACCGCAATTCCTGGAACACCATCTCCTTCCACACTG
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GGCTCCCTCGGGTGTCTTCCTAGAGAACATGGGGGGTCCTTTCTGCCGGTGGCGCCGACCTTACGTGAGA
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TGCACTCGGATGACTTTGAGTTTAACGATGATGAGTGGCATTTGGTCCGAGCTGAAATCAACGTGAAGCA
GGCCCGGCTGCGAGTGGATCACCGGCCCTGGGTGCTAAGGCCCATGCCCCTGCAGACCTACATCTGGCTG
GTGTATGACCAACCCCTCTATGTGGGATCTGCAGAGCTTAAGAGGCGCCCTTTTGTGGGCTGCTTGAGGG
CCATGCGTTTGAATGGAGTGACTCTGAACTTGGAGGGCCGTGCCAATGCCTCTGAGGGCACCTTCCCCAA
CTGCACCGGCCACTGCACCCACCCCCGGTTCCCCTGTTTCCACGGAGGACGCTGTGTGGAGCGATACAGC
TACTACACATGTGACTGTGACCTCACAGCTTTTGATGGGCCATACTGCAATCACGATATTGGTGGATTCT
TTGAGACCGGCACATGGATGCGCTATAACCTCCAGTCAGCACTGCGCTCTGCAGCCCGGGAGTTCTCACA
CATGCTGAGCCGGCCAGTGCCGGGCTATGAGCCTGGCTATGTTCCAGGCTACGACACTCCTGGTTACGTG
CCTGGATACCACGGCCCTGGGTACCGACTGCCCGAGTACCCGAGGCCCGGCCGGCCAGTGCCCGGGTATA
GGGGGCCTGTCTACAATGTTACTGGAGAGGAGGTCTCCTTCAGCTTCAGCACCAACTCTGCTCCTGCCGT
CCTGCTCTATGTCAGCTCCTTTGTACGTGACTACATGGCTGTGCTCATCAAGGAAGACGGGACCCTACAG
CTTCGGTATCAGTTGGGCACCAGTCCCTATGTGTACCAGCTAACCACCCGGCCAGTGACTGATGGTCAGC
CCCATAGTGTCAACATCACCCGGGTCTACCGAAACCTCTTTATCCAGGTGGACTACTTCCCGCTGACAGA
ACAGAAGTTCTCTCTCCTGGTGGACAGCCAGCTGGACTCACCCAAGGCCTTGTATCTAGGGCGTGTGATG
GAGACAGGAGTCATTGACCCAGAGATTCAGCGGTACAACACCCCAGGTTTCTCAGGCTGCCTGTCTGGTG
TCCGGTTCAACAATGTGGCTCCTCTCAAGACCCATTTCCGAACCCCTCGGCCCATGACTGCTGAGCTGGC
GGAGGCCATGCGGGTTCAAGGAGAACTGTCAGAATCTAACTGTGGAGCTATGCCACGCCTTGTCTCTGAG
GTGCCACCAGAACTTGATCCCTGGTACCTGCCTCCAGATTTCCCATACTACCATGACGACGGATGGATTG
CCATACTCTTAGGTTTTTTGGTGGCCTTCCTGCTGCTGGGGCTTGTGGGAATGCTGGTGCTGTTCTATCT
GCAAAATCATCGATACAAGGGCTCCTACCACACCAACGAGCCCAAGGCCACCCACGATTCCCATCCTGGC
GGCAAAGCTCCCCTCCCTCCCTCAGGCCCTGCCCAGGCCCCTGCCCCTACTCCAGCTCCCACACAGCTTC
CAACCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCTCTGGCCCAGGCCCCAGAGACCAGAACCTCCCCCA
GATCTTGGAGGAGTCCAGGTCTGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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_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]

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