OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC224060

Ctnnd2 (NM_008729) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctnnd2 (NM_008729) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctnnd2
Synonyms:	Catnd2; neurojugin; Nprap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224060 representing NM_008729
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCGCCAGGAAGCAGTCGGGCGCCGCGCCGTTCGGAGCTATGCCTGTCCCAGACCAGCCTCCATCAG
CCTCAGAGAAGAACAGCTCCTTGAGCCCAGGCTTAAACACCTCCAATGGTGATGGCTCTGAGACGGAAAC
CACCTCTGCTATCCTTGCCTCCGTCAAAGAACAGGAATTACAGTTTGAAAGGCTGACCCGAGAGCTGGAG
GCTGAACGCCAGATCGTAGCCAGCCAGCTGGAGCGATGCAAGCTTGGCTCGGAGACAGGAAGCATGAGCA
GTATCAGTTCAGCAGAGCAGTTTCACTGGCAGACACAAGATGGCCAAAAAGATATCGAAGATGAACTTAC
AACGGGCCTTGAGCTGGTGGACTCCTGTATCCGCTCTCTGCAGGAGTCAGGCATTCTGGACCCACAGGAT
TACTCCACAAGTGAAAGGCCTAGCCTGCTCTCCCAGAGTGCACTTCAGCTCAATTCTAAACCTGAAGGGT
CTTTCCAGTATCCGGCCAGCTACCATAGCAACCAGACCCTGGCCCTGGGTGACACAGCCCCTTCTCAGCT
CCCAGCACGCAGCACGCAAGCCCGAGCTGCCGGCCAGAGCTTCAGCCAGGGCACGACCGGCCGCGCGGGG
CACCTGGCGGGCTCCGAGCCTGCGCCACCGCCTCCGCCTCCGCGGGAACCGTTCGCGCCCAGCCTGGGCA
GCGCCTTCCACCTGCCCGACGCGCCGCCCGCCGCCGCGGCGCTCTACTACTCCAGCTCCACGCTGCCCGC
GCCGCCGCGCGGGGGCTCCCCGCTGACCACCACGCAGGGCGGCTCACCCACCAAGCTGCAGCGCGGAGGC
TCGGCCCCCGAGGGTGCCGCCTACGCCGCGCCGCGCGGCTCCTCGCCCAAGCAGTCGCCCAGCCGCCTGG
CTAAGTCCTACAGCACCAGCTCGCCCATCAACATCGTCGTGTCCTCGGCCGGCCTGTCCCCGATCCGCGT
GACCTCGCCCCCCACCGTGCAGTCCACCATCTCCTCTTCGCCCATCCACCAGCTGAGCTCCACCATCGGC
ACCTACGCCACCCTGTCGCCCACCAAGCGCCTGGTCCACGCGTCTGAGCAGTACAGCAAGCATTCGCAGG
AGCTGTATGCCACCGCCACCCTCCAGAGGCCGGGCAGCCTGGCAGCTGGATCCCGAGCCTCGTATAGCAG
CCAGCATGGGCACCTGGCCCCTGAGCTGCGGGCCCTGCAGTCCCCAGAGCACCACATAGACCCCATCTAT
GAAGACCGTGTCTATCAGAAGCCCCCTATGAGGAGTCTCAGCCAGAGCCAGGGGGATCCTCTGCCGCCAG
CACATACCGGCACCTTCCGCACGAGCACAGCCCCGTCCTCCCCTGGTGTCGACTCCGTCCCCTTGCAGCG
CACAGGCAGCCAACACGGGCCACAGAATGCCGCCGCAGCCACCTTCCAGAGGGCCAGCTATGCTGCCGGC

View online »

CCAGCCTCCAACTACGCAGACCCCTACCGACAGCTGCAGTATTGTGCCTCCGTTGACTCTCCGTACAGCA
AATCTGGCCCTGCCCTCCCACCCGAAGGCACCTTGGCCAGATCCCCATCCATCGACAGCATTCAGAAAGA
CCCCAGGGAGTTTGGATGGAGAGACCCGGAGCTGCCTGAAGTGATACAGATGTTACAGCACCAGTTCCCT
TCAGTCCAGTCCAATGCTGCAGCTTACCTGCAACACCTCTGTTTTGGAGACAATAAAATTAAGGCAGAGA
TAAGGAGACAAGGAGGGATACAGCTCCTGGTGGACCTGCTGGATCACCGAATGACAGAAGTCCACCGTAG
TGCCTGTGGGGCTCTGAGGAACCTGGTGTATGGGAAGGCCAATGATGATAACAAAATCGCCCTGAAAAAC
TGTGGTGGTATCCCAGCGCTGGTGAGACTCCTTCGCAAGACCACAGACCTGGAGATCCGGGAGCTGGTCA
CAGGAGTCCTTTGGAACCTCTCATCATGTGATGCACTCAAAATGCCAATCATCCAGGACGCCCTGGCAGT
GCTGACCAATGCGGTGATTATCCCTCACTCGGGCTGGGAGAATTCACCTCTTCAGGATGATCGGAAAATA
CAGCTGCATTCATCACAGGTGCTGCGCAACGCCACTGGGTGCCTAAGGAATGTAAGTTCAGCTGGAGAGG
AGGCCCGCCGAAGGATGCGGGAGTGTGATGGGCTCACGGATGCCTTGCTGTACGTGATCCAGTCTGCACT
GGGGAGCAGTGAGATCGATAGCAAGACCGTTGAAAACTGTGTGTGCATCTTGAGGAACCTCTCCTACCGG
CTAGCAGCAGAAACGTCTCAGGGACAGCACATGGGCACAGACGAGCTGGACGGGCTGCTCTGCGGGGAGA
CCAACGGCAAAGACACAGAGAGTTCTGGGTGCTGGGGCAAGAAGAAGAAGAAAAAGAAATCCCAGGACCA
GTGGGATGGAGTAGGACCTCTTCCAGACTGTGCAGAGCCACCAAAAGGGATCCAGATGCTGTGGCACCCG
TCCATAGTCAAACCCTACCTCACACTGCTCTCTGAGTGCTCAAACCCAGACACGCTGGAAGGGGCAGCGG
GCGCCCTGCAGAACTTGGCTGCAGGGAGCTGGAAGGGCTGGGCTGAGGATGTGGCAGGCATGGCGTATGC
CCTACGTTCACTGCCAGAGGGGGCTCCCTGCCTGCCACAGTGGTCCGTGTATATCCGAGCTGCTGTCCGG
AAAGAGAAAGGCCTGCCCATTCTTGTGGAGCTCCTCCGAATAGACAATGACCGTGTAGTGTGTGCAGTGG
CCACAGCACTTCGGAACATGGCCCTCGATGTCAGAAACAAGGAACTCATTGGCAAGTATGCCATGCGAGA
CCTGGTCCACCGGCTTCCTGGTGGGAACAACAGCAACAACTCGGGGAGCAAGGCCATGTCAGATGACACC
GTGACGGCCGTGTGCTGCACCCTGCATGAAGTGATCACCAAGAACATGGAGAATGCCAAGGCCTTACGGG
ATGCTGGTGGCATCGAGAAGTTGGTCGGCATCTCTAAAAGCAAAGGAGACAAGCACTCTCCAAAGGTGGT
CAAGGCTGCTTCTCAGGTCCTAAACAGCATGTGGCAGTATCGCGATCTGAGGAGTCTCTACAAGAAGGAT
GGATGGTCACAATATCACTTTGTAGCCTCATCTTCAACCATCGAGAGGGATCGACAAAGGCCCTACTCCT
CCTCCCGCACACCCTCCATCTCTCCCGTGCGTGTGTCTCCCAACAACCGCTCAGCAAGTGCCCCAGCTTC
ACCTCGGGAAATGATCAGCCTCAAAGAAAGGAAGACGGACTACGAGTCCGCTGGCAACAACGCCACTTAC
CACGGAACTAAAGGAGAACACACCTCCAGAAAAGACACCATGACAGCTCAAAACACTGGAGTTTCAACTT
TGTACAGGAATTCATACGGTGCGCCCGCTGAAGACATCAAACAGAACCAGGTTTCCACACAGCCTGTCCC
TCAGGAGCCCAGCAGGAAAGACTACGAGACCTACCAGCCCTTTCCGAATTCCACACGAAATTATGATGAG
TCCTTCTTTGAGGACCAGGTCCACCACCGCCCTCCAGCCAGCGAGTACACCATGCACCTGGGCCTCAAGT
CCACTGGCAACTATGTCGACTTCTACTCTGCAGCCCGTCCTTACAGTGAACTGAACTATGAAACGAGCCA
CTACCCGGCCTCGCCCGACTCCTGGGTGTAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_008729

Insert Size: 3741 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:	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_008729.2, NP_032755.2
RefSeq Size:	5959 bp
RefSeq ORF:	3741 bp
Locus ID:	18163
UniProt ID:	O35927
Cytogenetics:	15 B2
Gene Summary:	Has a critical role in neuronal development, particularly in the formation and/or maintenance of dendritic spines and synapses (PubMed:17993462) (PubMed:25807484). Involved in the regulation of canonical Wnt signaling (By similarity). It probably acts on beta-catenin turnover, facilitating beta-catenin interaction with GSK3B, phosphorylation, ubiquitination and degradation (PubMed:20623542). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules. Functions as a transcriptional activator when bound to ZBTB33 (PubMed:15282317).[UniProtKB/Swiss-Prot Function]