

Product datasheet for **MR219148**

Ctnna2 (NM_145732) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctnna2 (NM_145732) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctnna2
Synonyms:	AI481747; Catna; Catna2; cdf; chp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219148 representing NM_145732
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTTCGGCAACTTCACCTATTATTTTAAAATGGGATCCCAAAGTTTGGAAATCCGGACACTCACAG
 TGGAAAGACTATTGGAGCCACTTGTGACACAGGTGACAACACTTGTCAACACAAGCAACAAAGGTCGGTC
 TGGTAAAAAGAAAGGGAGGTCAAAGAAAGCCCATGTGCTGGCAGCATCTGTAGAACAAGCTACTCAGAAC
 TTCCTGAAAAAGGGTGAACAGATCGCTAAGGAGAGCCAAGACCTCAAAGAAGAGTTAGTGCTGTGTAG
 AGGATGTGCGGAAGCAAGGTGAGACAAATGCGGATTGCCTCCTCAGAGTTTGCAGATGACCCTTGCTCTTC
 TGTCAAGCGTGGCACCATGGTGCCTGCAGCAGGGCTCTGCTATCGGCTGTGACACGCTTGTCTATCCTG
 GCCGACATGGCAGATGTCATGAGGCTTTTATCGCATCTGAAAATGTGCGAGGAGGCTTGGAAAGCAGTCA
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 CTATGTAGCAGCAAGACGGCAGCAGGAGCTCAAGGACCCTCACTGTAGGGATGAGATGGTGCAGCCCGT
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 CTGCTACAAGAGCCAACCGAGATTATGTATTTAAACAAGTCCAAGAGGCCATAGCTGGCATCTCCAGTGC
 TGCTCAGGCCACCTCCCCACCGATGAAGCCAAAGGCCACACAGGCATCGGCGAGCTGGCTGCAGCCCTG
 AATGAGTTTGATAATAAGATCATCTGGACCCCATGACATTACAGCGAGGCCAGGTTCCGACCATCCCTGG
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 AAAACCATATCTGGAGGATGTGAACAATGTGTGATTGCCCTGCAAGAGGGAGATGTGGACACACTGGA
 TCGCACAGCTGGGGCCATACGGGGCCGGCAGCCCGGTCATTACATCATCAATGCAGAGATGGAGAAC
 TATGAAGCTGGGGTCTATACAGAGAAAGTCTGGAAGCCACAAAATTGCTTTCAGAAACAGTGTGCCAC
 GCTTTGCTGAACAAGTTGAGGTGCCATCGAAGCCCTGAGCGCCAATGTCCCTCAGCCATTCCGAGGAGAA
 CGAGTTTATCGATGCCTCGCGCCTGGTGTATGACGGTGTTCGGGACATCAGAAAGGCTGTGCTGATGATC
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 AAGTGAAGGCCGAGGTTTCAACCTAGGAGGAGAGCTCATTGTGTGAGGCTGGACAGTGTACATCACT
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 GAAACACATTTACCTGTGCAGGCTTTAAGTGAATCAAGGCAATGGATTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219148 representing NM_145732
 Red=Cloning site Green=Tags(s)

MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSKKAHVLAASVEQATQN
 FLEKGEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDCSSVVRGTMVRAARALLSAVTRLLIL
 ADMADVMRLLSHLKIVEEALAVKNATNEQDLANRFKEFGKEMVKLNVAARRQQLKDPHCRDEMAAAR
 GALKKNATMLYTASQAFLRHPDVAATRANRDYVFKQVQEAIAIGISSAAQATSPTDEAKGHTGIGELAAAL
 NEFDNKIILDPMTFSEARFRPSLEERLESIIISGAALMADSSCTRDRRERIVAECNAVRQALQDLLSEYM
 NNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLEAAKSGNEKEVKEYAQV
 FREHANKLVEVANLACISNNEEGVKLVMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWE
 KQVRYL TEAVDDITSVDDFLSVSENHILEDVNCVIALQEGDVTDLDRTAGAIRGRAARVIHINAEMEN
 YEAGVYTEKVL EATKLLSETVMPRFAEQVEVAIEAL SANVPQPFEENEIDASRLVYDGVDRIRKAVLMI
 RTPEELEDSDFEQEDYDVRSTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAE
 VAKWDDSGNDIIVLAKQKCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSA
 CKQDLLAYLQRIALYCHQLNICKVKAEVQNLGGELIVSGLDSATSLIQAANKLMNAVVLTVKASYVAST
 KYQKVYGTAAVNSPVVSWKKAPEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

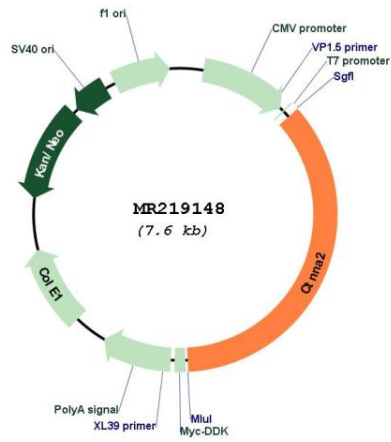
Cloning Scheme:



ACCN: NM_145732

ORF Size:	2715 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:	<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_145732.2 , NP_663785.2
RefSeq Size:	4004 bp
RefSeq ORF:	2718 bp
Locus ID:	12386
UniProt ID:	Q61301
Cytogenetics:	6 33.54 cM
MW:	100.9 kDa
Gene Summary:	May function as a linker between cadherin adhesion receptors and the cytoskeleton to regulate cell-cell adhesion and differentiation in the nervous system (PubMed:12123610, PubMed:15034585). Required for proper regulation of cortical neuronal migration and neurite growth. It acts as negative regulator of Arp2/3 complex activity and Arp2/3-mediated actin polymerization. It thereby suppresses excessive actin branching which would impair neurite growth and stability (By similarity). Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation (PubMed:12089526).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219148