

## Product datasheet for **MR211288**

### **Ctnna2 (NM\_001109764) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ctnna2 (NM_001109764) 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:**

>MR211288 representing NM\_001109764  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTCGGCAACTTCACCTATTATTTTAAAATGGGATCCCAAAGTTTGGAAATCCGGACACTCACAG  
 TGGAAAGACTATTGGAGCCACTTGTGACACAGGTGACAACACTTGTCAACACAAGCAACAAAGGTCGGTC  
 TGGTAAAAAGAAAGGGAGGTCAAAGAAAGCCCATGTGCTGGCAGCATCTGTAGAACAAGCTACTCAGAAC  
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 AGGATGTGCGGAAGCAAGGTGAGACAAATGCGGATTGCCTCCTCAGAGTTTGCAGATGACCCTTGCTCTTC  
 TGTCAAGCGTGGCACCATGGTGCCTGCAGCAGGGCTCTGCTATCGGCTGTGACACGCTTGTCTATCCTG  
 GCCGACATGGCAGATGTCATGAGGCTTTTATCGCATCTGAAAATTGTCGAGGAGGCCCTTGGAAAGCAGTCA  
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 TGCTCAGGCCACCTCCCCACCGATGAAGCCAAAGGCCACACAGGCATCGGCGAGCTGGCTGCAGCCCTG  
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 AATAACACTGGAAGGAAAGAGAAAGGAGACCCTCTCAACATTGCGATTGACAAGATGACCAAGAAAAACA  
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 CCTGAAAAGAAGCCCTTGTGAAGAGAGAAAAGCCTGAAGAATCCAGACAAGAGTTAGACGGGGTCTC  
 AAAAGAAACACATTTACCTGTGACGGCTTAAGTGAATCAAGGCAATGGATTCCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211288 representing NM\_001109764  
 Red=Cloning site Green=Tags(s)

MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSCKAHVLAASVEQATQN  
 FLEKGEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDPCCSSVKRGTMVRAARALLSAVTRLLIL  
 ADMADVMRLLSHLKIVEEALAVKNATNEQDLANRFKEFGKEMVKLNVAARRQQELKDPHCRDEMAAAR  
 GALKKNATMLYASQAFLRHPDVAATRANRDYVFKQVQEAIAIGISSAAQATSPTDEAKGHTGIGELAAAL  
 NEFDNKIILDPMTFSEARFRPSLEERLESII SGAALMADSSCTRDRRERIVAECNAVRQALQDLLSEYM  
 NNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLEAAKSGNEKEVKEYAQV  
 FREHANKLVEVANLACSI SNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWE  
 KQVRVLTEAVDDITSVDDFLSVSENHILEDVNCVIALQEGDVTLDRTAGAIRGRAARVIHIINAEMEN  
 YEAGVYTEKVL EATKLLSETVMPRFAEQVEVAIEAL SANVPQPFEENEIDASRLVYDGVRDIRKAVLMI  
 RTPPELEDDSDFEQEDYDVRSTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAE  
 VAKWDDSGNDIIVLAKQKCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSA  
 CKQDLLAYLQRIALYCHQLNICKVKAEVQNLGGELIVSGTGVQSTFTTFFYVDCVIDGGRASQLSTHL  
 PTCAEGAPIGSGSSDSSMLDSATSLIQAANKLMNAVVLTVKASYASTKYQKVYGTAAVNSPVVSWKMKMA  
 PEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

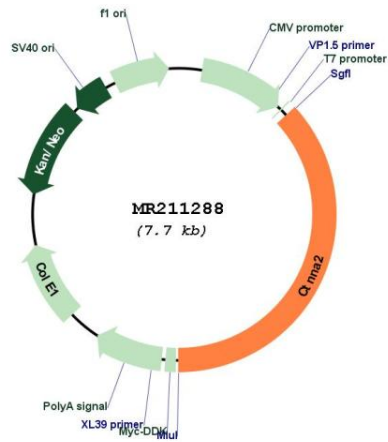


ACCN: NM\_001109764

ORF Size: 2859 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001109764.1</a> , <a href="#">NP_001103234.1</a>
<b>RefSeq Size:</b>	4148 bp
<b>RefSeq ORF:</b>	2862 bp
<b>Locus ID:</b>	12386
<b>UniProt ID:</b>	<a href="#">Q61301</a>
<b>Cytogenetics:</b>	6 33.54 cM
<b>MW:</b>	105.3 kDa
<b>Gene Summary:</b>	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 MR211288