

## Product datasheet for **RG238786**

### CTNNA2 (NM\_001282600) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA2 (NM_001282600) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTNNA2
Synonyms:	CAP-R; CAPR; CDCBM9; CT114; CTNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238786 representing NM\_001282600.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACTAAGAAAAACAAGAGATCTAAGGAGACAGCTTCGGAAAGCAGTGATGGATCACATATCTGACTCT
TTCCTGGAAACCAATGTTCTTTGCTAGTTCTCATTGAGGCTGCAAAGAGCGGAAATGAAAAGGAAGTG
AAAGAATATGCCCAAGTTTTCCGTGAGCATGCCAACAACTGGTAGAGGTTGCCAATTTGCCTGTTCC
ATCTCCAACAATGAAGAAGGGTGAAATTAGTTCGGATGGCAGCCACCCAGATTGACAGCCTGTGTCCC
CAGGTCATCAATGCCCTCTGACACTGGCTGCCCGCCACAGAGCAAAGTTGCTCAGGATAACATGGAC
GTCTTCAAAGACCAGTGGGAGAAGCAGGTCAGGTTGACAGAGGCCGTGGATGACATCACCTCAGTG
GATGACTTCTCTGTCTCAGAAAATCACATCTTGGAGGATGTGAACAAGTGTGTGATAGCCCTCAA
GAGGGCGATGTGGACACTCTGGACCGACTGCAGGGCCATCAGGGGCCGGCAGCTCGAGTCATACAC
ATCATCAATGCTGAGATGGAGAATGAAGCTGGGTTTATACTGAGAAGGTGTTGGAAGCTACAAAA
TTGCTTTCTGAAACAGTGATGCCACGCTTCGCTGAACAAGTAGAGTTGCCATTGAAGCCCTGAGTGCC
AACGTTTCCTCAACCGTTTGGAGAGAATGAGTTCATCGATGCCCTCTCGCCTGGTGTATGATGGCGTTCGG
GACATCAGAAAGGCTGTGCTGATGATCAGGACCCAGAAGAACTAGAGGATGATTCTGACTTTGAGCAG
GAAGATTATGATGTGCGTAGCAGGACAAGTGTTCAGACTGAGGATGACCAGCTCATTGCAGGGCAGAGC
GCACGGGCCATCATGGCGCAACTACCGCAGGAGGAGAAGGCAAAAATAGCTGAGCAGGTGGAGATATTC
CATCAAGAGAAAAGCAAGCTGGATGCAGAAGTGGCCAAATGGGACGACAGCGCAATGATATCATTGTA
CTGGCCAAAGCAGATGTGTATGATCATGATGAAATGACAGACTTACAAGAGGCAAAAGGCCATTGAAA
AATACATCTGATGTCATTAATGCTGCCAAGAAAATTGCCGAAGCAGGTTCTCGAATGGACAAATAGCT
CGTGCTGTGGCTGATCAGTGTCTGATTGATCAGCATGTAAGCAGGATTTATTAGCCTACCTCAACGAATT
GCCTTGATTGCCATCAGCTTAATATCTGCAGCAAGGTGAAGGCAGAAGTGCAGAATCTGGGAGGAGAG
CTCATTGTGTCAGGGCTGGACAGTGCCACATCGCTTATCCAGGCAGCTAAAAACCTGATGAATGCTGTT
GTCCTCACGGTGAAGCATCCTATGTGGCCTCAACCAAATACCAGAAGGTCTATGGGACAGCAGCTGTC
AACTCACCTGTTGTGCTTGAAGATGAAGGCTCCAGAGAAGAAGCCCTTGTGAAGAGAGAAAAGCCT
GAAGAATTCCAGACACGAGTTCGACGAGGTTCTCAGAAGAACACATTCGCCTGTACAGGCTTTAAGT
GAATTCAAAGCAATGGATTCCTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238786  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTKKTRDLRRQLRKAVMDHISDSFLETNPVLLVLEAAKSGNEKEVKEYAQVFRHANKLVEVANLACS
ISNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWEKQVRVLTEAVDDITSV
DDFLSVSENHILEDVNVKCVIALQEGDVTLDRTAGAIRGRAARVIHIINAEMENYEAGVYTEKVLKATK
LLSETVMPRFAEQVEVAIEALSANVPQPFEEFIDASRLVYDGVDRIRKAVLMIRTPPEELEDSDFEQ
EDYDVSRTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAEVAKWDDSGNDIIV
LAKQMCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSACKQDLLAYLQRI
ALYCHQLNICKVKAEVQNLGGELIVSGLDSATSLIQAANKLMNAVVLTVKASYVASTKYQKVYGTAAV
NSPVVSWKMAPEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001282600
<b>ORF Size:</b>	1611 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>RefSeq:</b>	<a href="#">NM_001282600.1</a> , <a href="#">NP_001269529.1</a>
<b>RefSeq Size:</b>	2889 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	1496
<b>UniProt ID:</b>	<a href="#">P26232</a>
<b>Cytogenetics:</b>	2p12
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
<b>MW:</b>	60.3 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 (By similarity). Required for proper regulation of cortical neuronal migration and neurite growth (PubMed:30013181). It acts as negative regulator of Arp2/3 complex activity and Arp2/3-mediated actin polymerization (PubMed:30013181). It thereby suppresses excessive actin branching which would impair neurite growth and stability (PubMed:30013181). Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation (By similarity).[UniProtKB/Swiss-Prot Function]