

Product datasheet for **SC336680**

CTNNA2 (NM_001282600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA2 (NM_001282600) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA2
Synonyms:	CAP-R; CAPR; CDCBM9; CT114; CTNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336680 representing NM_001282600.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

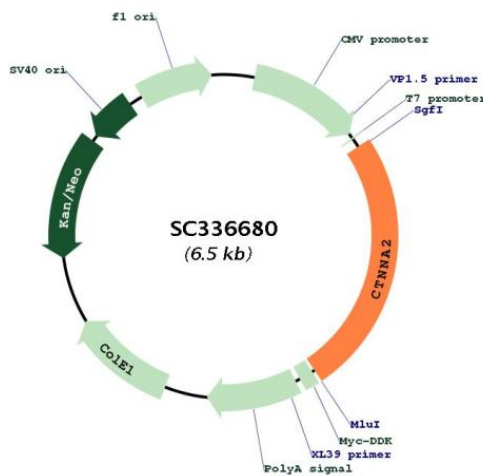
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Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN:	NM_001282600
Insert Size:	1614 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:	<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_001282600.1
RefSeq Size:	2889 bp
RefSeq ORF:	1614 bp
Locus ID:	1496
UniProt ID:	P26232
Cytogenetics:	2p12
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
MW:	59.9 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 (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] Transcript Variant: This variant (6) has an alternate exon in the 5' UTR and has multiple coding region differences compared to variant 3. These differences include translation initiation at a downstream AUG start codon. The resulting isoform (6) is shorter at the N-terminus and lacks an internal segment near the C-terminus compared to isoform 3.