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 KN213265

CTNNA3 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: CTNNA3

Locus ID: 29119

Components: **KN213265G1**, CTNNA3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGGTCCAAACATTCACCG
KN213265G2, CTNNA3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CACATTGAATATCGATCCTC
KN213265D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

```
AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGCGTTT CGGTGATGAC
GGTGAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCCAAATC AAGTTTTTTG
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCTAAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGGCGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTCACG CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GTACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATGCGT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTC CCAGTCACGA CGTTGTAAAA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GGAAGACACA
```

View online »

CCTCTCAGGG GCTTCTCTCT TTTTACAACA ACTGTGCAAT TTGTATTAGT TTCTTTTCCT GTCCAAGAAG
GTAAATTGCC TTTAACCTTC TCCAATCAAA ACCCTCAAAT AAACAATCTC TAAATCAAGT AAGGACATAT
CTTTACTTGT TCCCATGTCT TTCAAAGGTT TACTTGTTCC TTGTCTAAGT CATCATTAAC AAGAAGAAGC
AAAATATGGG CATAGGCTGC CTCAGTGCTG TGATTTCACA GAAGCCAAAG GACTTGAATG CTGTAAGATG
TGTCTTACCT TTCTGATCAC TTAAGACTAC TGATCAAATA CAAACCCACC CCGGATGAGT TGTTAATTTA
ATCATGAACA TACTTGTGTA GATTAATTTG TTACAGGACC TAAGCCCAGG CAGCATGACC TCAGGGAACA
GTTGGGGAAT ATCTTCTTTC TCTGAAGGTA GATTTTGTAG CCTGGTCCTC TGAGGGCTAT GGTTGATATC
AGGAAGAGGT GCTGAATACA AGTTTTACCT ATTCCATGAT TTCATAAGTG TTCTTCTTTA GAAAACAGTT
TTCTTTATTA ATAAGCATCC TTTTGTGTTT GTGCACAGGC AGCACTAGCA TGGAGAGCGA CGAGAGCGGC
CTGCCCGCCA TGGAGATCGA GTGCCGCATC ACCGGCACCC TGAACGGCGT GGAGTTCGAG CTGGTGGGCG
GCGGAGAGGG CACCCCCGAG CAGGGCCGCA TGACCAACAA GATGAAGAGC ACCAAAGGCG CCCTGACCTT
CAGCCCCTAC CTGCTGAGCC ACGTGATGGG CTACGGCTTC TACCACTTCG GCACCTACCC CAGCGGCTAC
GAGAACCCCT TCCTGCACGC CATCAACAAC GGCGGCTACA CCAACACCCG CATCGAGAAG TACGAGGACG
GCGGCGTGCT GCACGTGAGC TTCAGCTACC GCTACGAGGC CGGCCGCGTG ATCGGCGACT TCAAGGTGAT
GGGCACCGGC TTCCCCGAGG ACAGCGTGAT CTTCACCGAC AAGATCATCC GCAGCAACGC CACCGTGGAG
CACCTGCACC CCATGGGCGA TAACGATCTG GATGGCAGCT TCACCCGCAC CTTCAGCCTG CGCGACGGCG
GCTACTACAG CTCCGTGGTG GACAGCCACA TGCACTTCAA GAGCGCCATC CACCCCAGCA TCCTGCAGAA
CGGGGGCCCC ATGTTCGCCT TCCGCCGCGT GGAGGAGGAT CACAGCAACA CCGAGCTGGG CATCGTGGAG
TACCAGCACG CCTTCAAGAC CCCGGATGCA GATGCCGGTG AAGAAAGAGT TTAAGAATTC CGATCATATT
CAATAACCCT TAATATAACT TCGTATAATG TATGCTATAC GAAGTTATTA GGTCTGAAGA GGAGTTTACG
TCCAGCCAAG CTTAGGATCT CGACCTCGAA ATTCTACCGG GTAGGGGAGG CGCTTTTCCC AAGGCAGTCT
GGAGCATGCG CTTTAGCAGC CCCGCTGGCA CTTGGCGCTA CACAAGTGGC CTCTGGCCTC GCACACATTC
CACATCCACC GGTAGCGCCA ACCGGCTCCG TTCTTTGGTG GCCCCTTCGC GCCACCTTCT ACTCCTCCCC
TAGTCAGGAA GTTCCCCCCC GCCCCGCAGC TCGCGTCGTG CAGGACGTGA CAAATGGAAG TAGCACGTCT
CACTAGTCTC GTGCAGATGG ACAGCACCGC TGAGCAATGG AAGCGGGTAG GCCTTTGGGG CAGCGGCCAA
TAGCAGCTTT GCTCCTTCGC TTTCTGGGCT CAGCAGCTGG GAAGGGTGGG TCCGGGGGCG GGCTCAGGGG
CGGGCTCAGG GGCGGGGCGG GCGCCCGAAG GTCCTCCGGA GGCCCGGCAT TCTGCACGCT TCAAAAGCGC
ACGTCTGCCG CGCTGTTCTC CTCTTCCTCA TCTCCGGGCC TTTCGACCTG CATCCATCTA GATCTCGAGC
AGCTGAAGCT TACCATGACC GAGTACAAGC CCACGGTGCG CCTCGCCACC CGCGACGACG TCCCCAGGGC
CGTACGCACC CTCGCCGCCG CGTTCGCCGA CTACCCCGCC ACGCGCCACA CCGTCGATCC GGACCGCCAC
ATCGAGCGGG TCACCGAGCT GCAAGAACTC TTCCTCACGC GCGTCGGGCT CGACATCGGC AAGGTGTGGG
TCGCGGACGA CGGCGCCGCG GTGGCGGTCT GGACCACGCC GGAGAGCGTC GAAGCGGGGG CGGTGTTCGC
CGAGATCGGC CCGCGCATGG CCGAGTTGAG CGGTTCCCGG CTGGCCGCGC AGCAACAGAT GGAAGGCCTC
CTGGCGCCGC ACCGGCCCAA GGAGCCCGCG TGGTTCCTGG CCACCGTCGG CGTCTCGCCC GACCACCAGG
GCAAGGGTCT GGGCAGCGCC GTCGTGCTCC CCGGAGTGGA GGCGGCCGAG CGCGCCGGGG TGCCCGCCTT
CCTGGAGACC TCCGCGCCCC ACAACCTCCC CTTCTACGAG CGGCTCGGCT TCACCGTCAC CGCCGACGTC
GAGGTGCCCG AAGGACCGCG CACCTGGTGC ATGACCCGCA AGCCCGGTGC CTGACGCCCG CCCCACGACC
CGCAGCGCCC GACCGAAAGG AGCGCACGAC CCCATGCATC GATGATATCA GATCCCCGGG ATGCAGAAAT
TGATGATCTA TTAAACAATA AAGATGTCCA CTAAAATGGA AGTTTTTCCT GTCATACTTT GTTAAGAAGG
GTGAGAACAG AGTACCTACA TTTTGAATGG AAGGATTGGA GCTACGGGGG TGGGGGTGGG GTGGGATTAG
ATAAATGCCT GCTCTTTACT GAAGGCTCTT TACTATTGCT TTATGATAAT GTTTCATAGT TGGATATCAT
AATTTAAACA AGCAAAACCA AATTAAGGGC CAGCTCATTC CTCCCACTCA TGATCTATAG ATCTATAGAT
CTCTCGTGGG ATCATTGTTT TTCTCTTGAT TCCCACTTTG TGGTTCTAAG TACTGTGGTT TCCAAATGTG
TCAGTTTCAT AGCCTGAAGA ACGAGATCAG CAGCCTCTGT TCCACATACA CTTCATTCTC AGTATTGTTT
TGCCAAGTTC TAATTCCATC AGAAGCTGGT CGAGATCCGG AACCCTTAAT ATAACTTCGT ATAATGTATG
CTATACGAAG TTATTAGGTC CCTCGAAGAG GTTCACTAGG CGCGCCAAGC TACTGGAGCC TCTCATAATC
CAGGTATTAA TACCATGGAA ATTATGATAT ATAGTAACTG CAGAAGAATG AAAAATATGT GGGAAAAATG
AATAATGAAG AATAAAAGAT TTGATTTTTA TATATAAATA TGTCATCTAA AATTGTCCTT TAAAGAGTTG
TTAAGATGTG AAAAGTAGGT ATGTGTGTTG TTAAGATGTG AAAAAGTATG TATTCTGAAA GTTTCCCCCA
CATTCTCTTT TAGCAAGAAT AGCAGTAATA ATATATATAT ATATATATAT ATATATATAT AATTTTCAGA
GTACCTTTAT ATAAATTATC TTCTTTGATA ATCGTGAAAA CTGAATGAGG CAGGTAACAT GGTTAAAACC
ATCTTTATTA CATAGATGAG GAAACTGAGG CCTAGAGAAT TTCACTAACT TGCCTCAGGC ACATGGCATC

TCATTTGCCA AATGGGAAAC TACCTTTAAA ATACTAAAAT GTATGAGAAA AGCAGCTATT TAAAGGAATT
CTGTGATGAA GTCTTTCATA AGGTGAATAA TCCTTTGATG ATATGCATAA TGATTCTCTG ACTTTTTTTA
TTATGTAAGT CGAGATCATC CAGTCTTCAC TGACTGACTG ACTGGAAAGA GGAAGGGCTG GAAGAGGAAG
GAGCTTGGCG TAATCATGGT CATAGCTGTT TCCTGTGTGA AATTGTTATC CGCTCACAAT TCCACACAAC
ATACGAGCCG GAAGCATAAA GTGTAAAGCC TGGGGTGCCT AATGAGTGAG CTAACTCACA TTAATTGCGT
TGCGCTCACT GCCCGCTTTC CAGTCGGGAA ACCTGTCGTG CCAGCTGCAT TAATGAATCG GCCAACGCGC
GGGGAGAGGC GGTTTGCGTA TTGGGCGCTC TTCCGCTTCC TCGCTCACTG ACTCGCTGCG CTCGGTCGTT
CGGCTGCGGC GAGCGGTATC AGCTCACTCA AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG
CAGGAAAGAA CATGTGAGCA AAAGGCCAGC AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT
TTTCCATAGG CTCCGCCCCC CTGACGAGCA TCACAAAAAT CGACGCTCAA GTCAGAGGTG GCGAAACCCG
ACAGGACTAT AAAGATACCA GGCGTTTCCC CCTGGAAGCT CCCTCGTGCG CTCTCCTGTT CCGACCCTGC
CGCTTACCGG ATACCTGTCC GCCTTTCTCC CTTCGGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG
GTATCTCAGT TCGGTGTAGG TCGTTCGCTC CAAGCTGGGC TGTGTGCACG AACCCCCCGT TCAGCCCGAC
CGCTGCGCCT TATCCGGTAA CTATCGTCTT GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG
CAGCCACTGG TAACAGGATT AGCAGAGCGA GGTATGTAGG CGGTGCTACA GAGTTCTTGA AGTGGTGGCC
TAACTACGGC TACACTAGAA GAACAGTATT TGGTATCTGC GCTCTGCTGA AGCCAGTTAC CTTCGGAAAA
AGAGTTGGTA GCTCTTGATC CGGCAAACAA ACCACCGCTG GTAGCGGTGG TTTTTTTGTT TGCAAGCAGC
AGATTACGCG CAGAAAAAAA GGATCTCAAG AAGATCCTTT GATCTTTTCT ACGGGGTCTG ACGCTCAGTG
GAACGAAAAC TCACGTTAAG GGATTTTGGT CATGAGATTA TCAAAAAGGA TCTTCACCTA GATCCTTTTA
AATTAAAAAT GAAGTTTTAA ATCAATCTAA AGTATATATG AGTAAACTTG GTCTGACAGT TACCAATGCT
TAATCAGTGA GGCACCTATC TCAGCGATCT GTCTATTTCG TTCATCCATA GTTGCCTGAC TCCCCGTCGT
GTAGATAACT ACGATACGGG AGGGCTTACC ATCTGGCCCC AGTGCTGCAA TGATACCGCG AGAACCACGC
TCACCGGCTC CAGATTTATC AGCAATAAAC CAGCCAGCCG GAAGGGCCGA GCGCAGAAGT GGTCCTGCAA
CTTTATCCGC CTCCATCCAG TCTATTAATT GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG
TTTGCGCAAC GTTGTTGCCA TTGCTACAGG CATCGTGGTG TCACGCTCGT CGTTTGGTAT GGCTTCATTC
AGCTCCGGTT CCCAACGATC

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

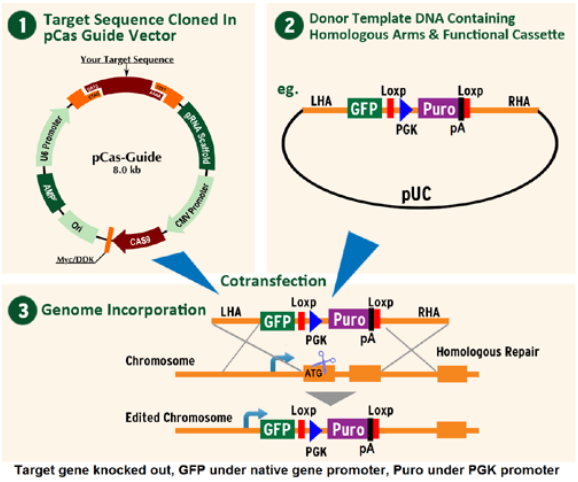
RefSeq: NM_001127384, NM_001291133, NM_013266

UniProt ID: Q9UI47

Synonyms: ARVD13; VR22

Summary: This gene encodes a protein that belongs to the vinculin/alpha-catenin family. The encoded protein plays a role in cell-cell adhesion in muscle cells. Mutations in this gene are associated with arrhythmogenic right ventricular dysplasia, familial 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter