

Product datasheet for **SC302987**

HCN2 (NM_001194) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCN2 (NM_001194) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCN2
Synonyms:	BCNG-2; BCNG2; HAC-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001194 edited
 ATGGACGCGCGCGGGGGCGGGCGGGCCGGGGAGAGCCGGGCGCGACCCCGCGCCG
 GGGCCGCGCGCGCGCGCGCGCCCGCGCCCCCAACAGCAGCCGCCCGCGCGCCG
 CCCGCGCCCCCGGGCCCCGGGCCCGCGCCCCCAGCACCCGCCCGGGCCGAGGCG
 TTGCCCCGGAGGCGCGGATGAGGGCGGCCCGGGGCCGGCTCCGAGCCGCGACAGC
 TCGTGCGGCCGCCCGGACCCCGGGCGCGGCGAGCACGGCCAAGGGCAGCCGAACGGC
 GAGTGGGGCGCGGCGAGCCGAGTGCAGCCCCGGGGCCCGAGGGCCCGCGCGGGG
 CCCAAGGTGTCGTTCTCGTGCCGCGGGGCGGCCTCGGGGCCCGCGCGGGGCCG
 GCGGAGGAGGCGGGCAGCGAGGAGGCGGGCCCGCGGGGAGCCGCGCGCAGCCAGCC
 AGCTTCATGCAGCGCCAGTTCGGCGCGCTCCTGCAGCCGGGCGTCAACAAGTTCTCGTG
 CGGATGTTGCGCAGCCAGAAGGCCGTGGAGCGCGAGCAGGAGCGCGTCAAGTCGGCGGG
 GCCTGGATCATCCACCCGTACAGCGACTTCAGTTCTACTGGACTTCACCATGCTGCTG
 TTCATGGTGGAAACCTCATCATATCCAGTGGGCATCACCTTCTTCAAGGATGAGACC
 ACTGCCCCGTGGATCGTGTCAACGTGGTCTCGGACACCTTCTTCTCATGGACCTGGTG
 TTGAACCTCCGCACCGGCATTGTGATCGAGGACAACACGGAGATCATCCTGGACCCGAG
 AAGATCAAGAAGAAGTATCTGCGCACGTGGTTCGTGGTGGACTTCGTGTCTCCATCCCC
 GTGGACTACATCTTCTTATTGTGGAGAAGGGCATTGACTCCGAGGTCTACAAGACGGCA
 CGTGCCCTGCGCATCGTGCGCTTACCAAGATCCTCAGCCTCCTGCGGCTGCTGCGCCTC
 TCACGCCTGATCCGCTACATCCATCAGTGGGAGGAGATCTCCACATGACCTATGACCTG
 GCCAGCGCGGTGATGAGGATCTGCAATCTCATCAGCATGATGCTGCTGCTGCCACTGG
 GACGGCTGCCTGCAGTTCCTGGTGCCTATGCTGCAGGACTTCCCGCGCAACTGCTGGGTG
 TCCATCAATGGCATGGTGAACCACTCGTGGAGTGAAGTACTCCTTCGCACTCTTCAAG
 GCCATGAGCCACATGCTGTGCATCGGGTACGGCCGCGAGGCGCCGAGAGCATGACGGAG
 ATCTGGTGACCATGCTCAGCATGATTGTGGGTGCCACCTGCTACGCCATGTTTCATCGGC
 CACGCCACTGCCCTCATCCAGTCTGGACTCCTCGCGCGCCAGTACCAGGAGAAGTAC
 AAGCAGGTGGAGCAGTACATGTCCTTCCACAAGCTGCCAGCTGACTTCCGCCAGAAGATC
 CACGACTACTATGAGCACCGTTACCAGGCAAGATGTTTGACGAGGACAGCATCTGGGC
 GAGCTCAACGGGCCCTGCGGGAGGAGATCGTCAACTTCAACTGCCGGAAGCTGGTGGCC
 TCCATGCCGCTGTTCCGCAACGCCGACCCCAACTTCGTACGGCCATGCTGACCAAGCTC
 AAGTTCGAGGTCTTCCAGCCGGGTGACTACATCATCCGGAAGGCACCATCGGGAAGAAG
 ATGTACTTCATCCAGCACGGCGTGGTACGCGTCTCACTAAGGGCAACAAGGAGATGAAG
 CTGTCCGATGGCTCCTACTTCGGGGAGATCTGCCTGCTCACCCGGGGCCCGCGCACGGCG
 AGCGTGCGGGCCGACACCTACTGCCCTCTATTGCTGAGCGTGGACAACCTTCAACGAG
 GTGCTGGAGGAGTACCCCATGATGCGGCGCGCCTTCGAGACGGTGGCCATCGACCGCCTG
 GACCGCATCGGCAAGAAGATTCCATCCTCCTGCACAAGGTGCAGCATGACCTCAACTCG
 GGCGTATTCAACAACCAGGAGAACGCCATCATCCAGGAGATCGTCAAGTACGACCGCGAG
 ATGGTGCAGCAGGCCGAGCTGGGTACGCGCGTGGGCTTTCGCCCGCCCGCCCGCCG
 CCGCAGGTCACTCGGCCATCGCCACGCTGCAGCAGGCGGGCCATGAGCTTCTGCCCC
 CAGGTGGCGCGGCCGCTCGTGGGGCCGCTGGCGCTCGGCTCGCCGCGCCTCGTGCGCCG
 CCGCCCCCGGGGCCCGCACCTGCCGCGCCTCACCCGGGCCCGCCCGCCCGCCAGCCCC
 CCGGGCGCGCCCGCCAGCCCCGGGCACCGCGACCTCGCCCTACGGCGGCTGCCCGCC
 GCCCCCCCTGCTGGGCCCGCCTGCCGCGCGCCGCTGAGCCGCGCGTGCGCCCACTG
 TCCGCTCGCAGCCCTCGCTGCCTCACGGCGCCCCGGCCCCGCGGCTCCACACGCCCC
 GCCAGCAGCTCCACACCGCGCTTGGGGCCACGCCGCTGCCGGGCCCGCCCGCCAGC
 CCGGACCCGAGGACTCGGCCTCACCCGGCGCCCGCGCGCCTGGACCCCGAGGACTCC
 GCGCGCTCGGCCTCTCGTCCAATTGTGA

Restriction Sites: Please inquire

ACCN: NM_001194

Insert Size: 3400 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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:	<u>NM_001194.2</u> , <u>NP_001185.2</u>
RefSeq Size:	3459 bp
RefSeq ORF:	2670 bp
Locus ID:	610
UniProt ID:	<u>Q9UL51</u>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
Gene Summary:	The protein encoded by this gene is a hyperpolarization-activated cation channel involved in the generation of native pacemaker activity in the heart and in the brain. The encoded protein is activated by cAMP and can produce a fast, large current. Defects in this gene were noted as a possible cause of some forms of epilepsy. [provided by RefSeq, Jan 2017]