

Product datasheet for SC127821

HCN1 (NM_021072) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCN1 (NM_021072) Human Untagged Clone
Tag: Tag Free
Symbol: HCN1
Synonyms: BCNG-1; BCNG1; DEE24; EIEE24; GEFSP10; HAC-2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_021072 edited
GGCGGCGGGAGCCAGGCGCGCAGCTAGCAGCGGCGCGTCCGGGAAGCAGCAGCCGCCCGCC
GCCGCGCGCCCGCCCGCGACGGGCAGCTGGGCTCGCCGGCAGCCGGCTCGGGCCCTACC
CTCTCGGCTACGTGTCTCCGGCGCCGGGCGGCCGCGAGTCTGGAGCCCGCGCCCTCGCC
GGCCGCGTCTCCGGGCATGGAAGGAGGCGCAAGCCAACTCTTCGTCTAACAGCCGGG
ACGATGGCAACAGCGTCTCCCCGCCAAGGCGTCCGCGACGGGCGCGGGCCGGCCGCGG
CCGAGAAGCGCCTGGGCACCCCGCGGGGGCGGCGGGCCGGCGCAAGGAGCACGGCA
ACTCCGTGTGCTTCAAGGTGGACGGCGGTGGCGGCGGTGGCGGCGGCGGCGGCGGCG
AGGAGCCGGCGGGGGCTTCAAGACGCCGAGGGGCCCGGCGGCAGTACGGCTCATGC
AGAGGCAGTTCACCTCCATGCTGCAGCCCGGGTCAACAAATTCTCCCTCCGATGTTTG
GGAGCCAGAAGGCGGTGAAAAGGAGCAGGAAAGGTTAAAAGTGCAGGCTTCTGGATTA
TCCACCCTTACAGTGATTTACAGTTTTACTGGGATTTAATAATGCTTATAATGATGGTTG
GAAATCTAGTCATCATACCAAGTTGGAATCACATTCTTTACAGAGCAAACAACAACCCAT
GGATTATTTTCAATGTGGCATCAGATACAGTTTTCTATTGGACCTGATCATGAATTTTA
GGACTGGGACTGTCAATGAAGACAGTTCTGAAATCATCTGGACCCAAAGTGATCAAGA
TGAATTATTTAAAAGCTGGTTTGTGGTTGACTTCATCTCATCCATCCCAGTGGATTATA
TCTTTCTATTGTAGAAAAGGAATGGATTCTGAAGTTTACAAGACAGCCAGGGCACTTC
GCATTGTGAGGTTTACAAAAATTCTCAGTCTCTTGCCTTTATTACGACTTTCAAGTTAA
TTAGATACATACATCAATGGGAAGAGATATCCACATGACATATGATCTCGCCAGTGCAG
TGGTGAGAATTTTAAATCTCATCGGCATGATGCTGCTCCTGTGCCACTGGGATGGTTGTC
TTCAGTCTTAGTACCACTACTGCAAGACTTCCACCAGATTGCTGGGTGTCTTTAAATG
AAATGGTTAATGATTCTTGGGAAAGCAGTATTCATACGCACTCTTCAAAGCTATGAGTC
ACATGCTGTGCATTGGGTATGGAGCCCAAGCCCAAGTCAAGTGTCTGACCTCTGGATTA
CCATGCTGAGCATGATCGTCCGGGCCACCTGCTATGCCATGTTTGTGGCCATGCCACCG
CTTTAATCCAGTCTCTGGATTCTTCGAGGCGGCAGTATCAAGAGAAGTATAAGCAAGTGG
AACAAATACATGTCATTCCATAAGTTACCAGCTGATATGCGTCAGAAGATACATGATTACT
ATGAACACAGATACCAAGCAAAATCTTTGATGAGGAAAATATTCTCAATGAACTCAATG



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ATCCTCTGAGAGAGGAGATAGTCAACTTCAACTGTCGGAACTGGTGGCTACAATGCCTT
TATTTGCTAATGCGGATCCTAATTTTGTGACTGCCATGCTGAGCAAGTTGAGATTTGAGG
TGTTTTCAACCTGGAGATTATACATACGAGAAGGAGCCGTGGGTAAAAAATGATTTTCA
TTCAACACGGTGTGCTGGTGTCAATACAAAATCCAGTAAAGAAATGAAGCTGACAGATG
GCTCTTACTTTGGAGAGATTTGCCTGCTGACCAAAGGACGTCGTAAGTCCAGTGTTCGAG
CTGATACATATTGCTGCTTTACTCACTTCCGTGGACAATTTCAACGAGGTCCTGGAGG
AATATCCAATGATGAGGAGAGCCTTTGAGACAGTTGCCATTGACCGACTAGATCGAATAG
GAAAGAAAAATCAATTCTTCTGCAAAAGTTCCAGAAGGATCTGAACACTGGTGTTTTCA
ACAATCAGGAGAACGAAATCCTCAAGCAGATTGTGAAACATGACAGGGAGATGGTGCAGG
CAATCGCTCCCATCAATTATCCTCAAATGACAACCCTGAATTCACATCGTCTACTACGA
CCCCGACCTCCCGCATGAGGACACAATCTCCACCGGTGTACACAGCGACCAGCCTGTCTC
ACAGCAACCTGCACTCCCCAGTCCCAGCACACAGACCCCCAGCCATCAGCCATCCTGT
CACCTGTCTCTACACCACCGGGTCTGCAGCCCTCCTGTACAGAGCCCTCTGGCCGCTC
GAACTTTCCACTATGCCTCCCCACCGCTCCCAGCTGCTACTCATGCAACAGCAGCCGC
AGCAGCAGGTACAGCAGTCCCAGCCGCGCAGACTCAGCCACAGCAGCCGTCCCCGAGC
CACAGACACTGGCAGCTCCACGCGGAAAAATGAAGTGCACAAGAGCACGAGCCGCTTC
ACAACACCAACCTGACCCGGGAAGTCAGGCCACTCTCCGCTCGCAGCCCTCGTGCCCC
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TCCCTCAACCCGTGACGGCGGTCCCCGGAACGGGCCTTACGGCAGGGGGCAGGAGCACTG
TCCCGCAGCGGTCAACCTCTCCGACAGATGTCGTGGGAGCCATCCCCCGAACCAG
GAGTCCCTCCAGCACCCCTCCACCAGCAGTGTCTTCCAAGAGAATCTTCTCAGTCT
TAAACACAGACCAGACGAGAAAAGCCACGATTTGCTTCAAATTTATGATCCCTGTGA
TTGTCAAAGCAGAAAAGAAATACTCTCATAAACTGAGACTATACTCAGATCTTATTTTATT
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ACACGTGAAATGTAAAAATATATATACATATACTATAAAATATATATCTAAATCCCAAG
AGAGGGTCAAAGACCTGTTTAGCATTCACTGTTATATGTCTTCTTTTAAATCATT
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TTGATATGTATTTTCTCTATTTTATGAAGAGTCTTGGATTCAATGGAAACAAACTGA
TTTTAAAAAGGCAACTCAAATGAACTAGTAAATAGCACCAATCAAACCTTTCTTTTATTA
GCTGTGCTCTGCATCTAAATTTGTTAATCATTAAATGGTGGAGAATTAATAACAAATCCC
ATTTTATAGATCTAAATTTGATTTTCGGTGTCTTCAATTTCAAATTAGGTTAAAGAATGCA
CTACTTGCTTGGCCACCGTAGGAGACTAGCATTGCCACTGTTTGTAAAGAAATACTACTAA
CCTCAAACATGTTCAATTGATCTTTCAGAAAAGCTGAGGGAAAAATTAATTTTGTCTTCATG
TGTTATCGGACTTTTACCAAGACTCGATCAATGTTAGTTGTAATAACTTTTTCAACCCA
AATAAAAAATAGCTATTCTGTGTTGTAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021072 unedited
NNGGGATCATAATTTGTAACGACTCACTATAGCGGCCCGGAATTCGCACGAGGGGCGG
CGGGAGCCAGGCGCGCAGCTAGCAGCGCGCGGTGCGGAAGCAGCAGCCCGCCGCCGC
CGCCGCCCGCGACGGGCGAGTGGGCTCGCCGGCAGCCGGCTCGGGCCCTACCCCTCTC
GGCTACGTGTCTCCGGCCCGGGCGGCCGGCGAGTCTGGAGCCCGCGCCGTCCGGCGCCG
CGTCTCCGGGCATGGAAGGAGGCGGAAGCCAACTCTTCGTCTAACAGCCGGGACGAT
GGCAACAGCGTCTTCCCGCCAAGGCGTCCGCGACGGGCGCGGGCCGGCCGCGGCGGAG
AAGCGCTGGGCACCCCGCGGGGGCGGGCGGGCCGCGCGAAGGAGCACGGCAACTCC
GTGTGCTTCAAGTGGACGGCGGTGGCGCGGTGGCGCGGGCGGGCGGGCGGCGGAGGAG
CCGGCGGGGGCTTCAAGACGCGGAGGGGCCCCGGCGCAGTACGGCTCATGCAGAGG
CAGTTTCACTCCATGCTGCAGCCCGGGTCAACAAATTTCTCCTCCGCATGTTTGGGAGC
CAGAAGCGGTGGAAGGAGCAGGAAAGGTTAAAACTGCAGGCTTCTGGATTATCCAC
CCTTACAGTGATTTCAAGTTTTACTGGGATTTAATAATGCTTATAATGATGGTTGAAAT
CTAGTCATCATAACAGTTGGGATCACATTTCTTTACGAGCAAACAACAACCCCTGGAAT
TATTTTCAATGTGGCATCAGATACAGTTTTCTAATTGGACCTGATCATGAATTTAGGA
CTGGGACTGTCAATGAAGACAGTCTGAAATCTTCTGGACCCCAAGTGATCAGAATAATT
AT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_021072 unedited
 TGCTAGGATCAGTTTTGTTTTGGGTTATAACAACACACAAATAGGCTATTTTTATATGG
 GTTGAAAAATTATTTACAACAACTTATGATCGAGTCTTGGTAAAAAGTCCGATAACACATG
 AAGACAAATATTAATTTCCCTCAACTTTCTGAAAGATCAATGAACATGTTTGAGGTTAG
 TGATATTCCTTAACAAACAGTGGCAATGCTAGTCTCCTACGGTGGCCAAGCAAGTAGTGCA
 TTCTTTAACCTAATTTGAAATTGAAAGCACCGAAATACAATTTAGATCTATAAAATGGGA
 TTTGTTATTTAATCTCCACCATTAATGATTAACAATTTAGATGCAGAGACACAGCTCAT
 GAAAGAAAGTTTTGATTGGTGCTATTTACTAGTTCATTTGAGTTGCCTTTTTAAATCAG
 TTTTGTTTCCATTGAATCCGAGAACTCTCATAAAATAGAGAAATATACATATCAAAGGA
 CTTAAGTAAAAGTAGGTTAGAAATAAATAATCTTACAACGACATTTTAAATCCTTTAATG
 ATTTAAAGAAAGGAAGACGTATTACACTGAATGCTGAACAAGTCTTTTGACCCTCTTTG
 CGAATTTAGATACATATTTGATAGTATATGTAGATATATTTTTACATTTACGTGTAGGC
 CACAGCTGTCTAAATATCGCTTCATAGTAAGCTAGAGGGATCTATCAGGAGATAGAATA
 TAATCAGATCTGAGTATAGTCTCAGTTTATGAGAGTATTTCTTTCTGCTTTGACAATCAG
 CACGGATCAGAAATTTGAAGCAAATCGTGGCTTTTCTGCGTCTGGGTCTGAGTTATAGAC
 CTGAGAAGATTCTTTGGAAGAGCATCTGCTGTTGGAAGGGGATGCTGACGTACTCCTCG
 CTCG

Restriction Sites:

Please inquire

ACCN:

NM_021072

Insert Size:

3700 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
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_021072.1 , NP_066550.1
RefSeq Size:	2748 bp
RefSeq ORF:	2673 bp
Locus ID:	348980
UniProt ID:	O60741
Cytogenetics:	5p12
Protein Families:	Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
Gene Summary:	The membrane protein encoded by this gene is a hyperpolarization-activated cation channel that contributes to the native pacemaker currents in heart and neurons. The encoded protein can homodimerize or heterodimerize with other pore-forming subunits to form a potassium channel. This channel may act as a receptor for sour tastes. [provided by RefSeq, Oct 2011]