

Product datasheet for **RG220956**

HCN1 (NM_021072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCN1 (NM_021072) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCN1
Synonyms:	BCNG-1; BCNG1; DEE24; EIEE24; GEFSP10; HAC-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220956 representing NM_021072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGAGCGGCAAGCCAACTCTTCGTCTAACAGCCGGACGATGGCAACAGCGTCTTCCCGCCA
 AGGCGTCCGCGACGGGCGCGGGCCGGCCGCGGCGAGAAGCGCCTGGGCACCCCGCGGGGGCGGCGG
 GGCCGGCGCAAGGAGCACGGCAACTCCGTGTGCTTCAAGGTGGACGGCGGTGGCGGCGGTGGCGGCGG
 GGCGGCGGCGGAGGAGCCGGCGGGGGCTTCGAAGACGCCAGGGGCCCGCGGCGAGTACGGTTCA
 TGCAGAGGCGATTACCTCCATGCTGCAGCCGGGGTCAACAAATTCCTCCCGCATGTTTGGGAGCCA
 GAAGGCGGTGAAAAGGAGCAGGAAAGGGTTAAAAGTGCAGGCTTCTGGATTATCCACCCTTACAGTGT
 TTCAGGTTTTACTGGATTTAATAATGCTTATAATGATGGTTGGAATCTAGTCATACACCAGTTGGAA
 TCACATTTCTTACAGAGCAACAACAACACCATGGATTATTTCAATGTGGCATCAGATACAGTTTTCT
 ATTTGGACCTGATCATGAATTTTAGGACTGGGACTGTCAATGAAGACAGTCTGAAATCATCTGGACCC
 AAAGTGATCAAGATGAATTTTAAAAAGCTGGTTTGTGGTTGACTTCATCTCATCCATCCAGTGGATT
 ATATCTTTCTATTGTAGAAAAAGGAATGGATTCTGAAGTTTACAAGACAGCCAGGGCACTTCGCATTGT
 GAGGTTTACAAAAATTCAGTCTCTTGCCTTTATTACGACTTTCAAGGTTAATTAGATACATACATCAA
 TGGGAAGAGATATCCACATGACATATGATCTCGCCAGTGCAGTGGTGGAGATTTTAAATCTCATCGGCA
 TGATGCTGCTCCTGTGCCACTGGGATGGTTGTCTTCAGTCTTAGTACCACTACTGCAGGACTTCCCACC
 AGATTGCTGGGTGCTTTAAATGAAATGGTTAATGATTCTTGGGAAAGCAGTATTCATACGCACTTTC
 AAAGCTATGAGTCACATGCTGTGCATTGGTATGGAGCCCAAGCCCAGTGCAGATGCTGACCTTGA
 TTACCATGCTGAGCATGATCGTGGGGCCACCTGCTATGCCATGTTTGTGGCCATGCCACCGCTTAAAT
 CCAGTCTCTGGATTCTTCGAGGCGGAGTATCAAGAGAAGTATAAGCAAGTGAACAATACATGTCATTC
 CATAAGTTACCAGCTGATATGCGTCAGAAGATACATGATTACTATGAACACAGATACCAAGGCAAAATCT
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 GAAACTGGTGGCTACAATGCCTTTATTTGCTAATGCGGATCCTAATTTTGTGACTGCCATGCTGAGCAAG
 TTGAGATTTGAGGTGTTCAACCTGGAGATTATATCATAACGAGAAGGAGCCGTGGTAAAAAATGTATT
 TCATTCAACACGGTGTGCTGGTGTCTTACAAAATCCAGTAAAGAAATGAAGTGCAGATGGCTCTTA
 CTTTGGAGAGATTTGCCTGCTGACCAAAGGACGTCGACTGCCAGTGTTCGAGCTGATACATATTGCTG
 CTTTACTCACTTCCGTGGACAATTTCAACGAGGTCTGGAGGAATATCCAATGATGAGGAGAGCCTTTG
 AGACAGTTGCCATTGACCGACTAGATCGAATAGGAAAGAAAAATTCATTTCTTCTGCAAAAGTCCAGAA
 GGATCTGAACACTGGTGTTTTCAACAATCAGGAGAACGAAATCCTCAAGCAGATTGTGAAACATGACAGG
 GAGATGGTGCAGGCAATCGCTCCATCAATTATCCTCAAATGACAACCCTGAATTCACATCGTCTACTA
 CGACCCCGACCTCCCGCATGAGGACACAATCTCCACCGGTGTACACAGCGACCAGCTGTCTCACAGCAA
 CCTGCACTCCCCAGTCCCAGCACACAGACCCCCAGCCATCAGCCATCCTGTCAACCCTGCTCCTACACC
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 CCTCCCAGCTGTCACTCATGCAACAGCAGCCGACGAGCAGGTACAGCAGTCCCAGCCGCGCAGACTCA
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 CCCATGAGGTGTCCACTCTGATTTCCAGACCTCATCCACTGTGGGCGAGTCCCTGGCCTCCATCCCTCA
 ACCCGTGCAGGCGGTCCCCGGAACGGGCTTCAGGCAGGGGGCAGGAGCACTGTCCCGCAGCGCGTCAAC
 CTCTTCCGACAGATGTCGTGGGAGCCATCCCCCGAACCAGGAGTCCCTCCAGCACCCCTCCACCAG
 CAGCTGCTTCCAAGAGAATCTTCTCAGTCTTAAACACAGACCCAGACGCAGAAAAGCCACGATTTGC
 TTCAAATTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG220956 representing NM_021072
 Red=Cloning site Green=Tags(s)

MEGGGKPNSSNSRDDGNSVFPKASATGAGPAAAEKRLGTPPGGGGAGAKEHGNSVCFKVDGGGGGGGG
 GGGGEEPAGGFEDAEGPRRQYGFMRQFTSMLQPGVNKFLRMFGSQKAVEKEQERVKTAGFWIIHPYSDF
 FRFYWDLIMLIMVGNLVIIPVGITFFTEQTTTPWIIFNVASDTVFLDLIMNFRTGTVNEDSSEIILDP
 KVIKMNYLKSWFVDFISSIPVDYIFLIVEKMDSEVYKTARALRIVRFKILSLLRLLRSLRIRYIHQ
 WEEIFHMTYDLASAVRIFNLIGMMLLLCHWDGCLQFLVPLLQDFPPDCWVSLNEMVNDSWGKQYSYALF
 KAMSHMLCIGYGAQAPVSMSDLWITMLSMIVGATCYAMFVGHATALIQSLDSSRRQYQEYKQVEQYMSF
 HKLPADMRQKIHDIYEHRYQGKIFDEENILNELNDPLREEIVNFNCRKLVATMPLFANADPNFVTAMLSK
 LRFEVFPQGDYIIREGAVGKKMYFIQHGVAGVITKSSKEMKLDGSGYFGEICLLTKGRRTASVRADTYCR
 LYSLSVDNFNEVEEYPMRRRAFETVAIDRLDRIGKKNISILLQKFQKDLNTGVFNNQENEILKQIVKHDR
 EMVQAIAPINYPQMTTLNSTSTTTPTSRMRTQSPPVYATSLSHSNLHSPSPSTQTPQPSAILSPCS
 SYTAVCSPPVQSPLAARTFHYASPTASQLSLMQQPQQVQSQPPQTQPQPSPQPQTPGSSTPKNEVHKS
 TQALHNTNLTREVRPLSASQPSLPHEVSTLISRPHTVGEASIPQPVAVPGTGLQAGGRSTVPQRVT
 LFRQMSSGAIPNRRGVPPAPPPAAALPRESSSVLNTDPDAEKPRFASNL

TRTRPLE - GFP Tag - V

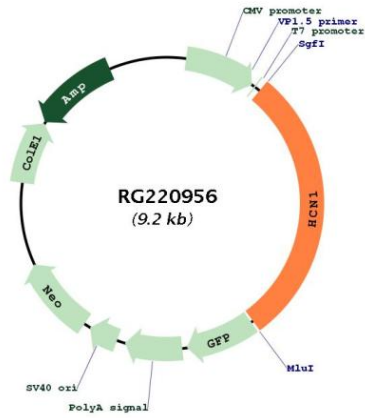
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_021072
ORF Size:	2670 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>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_021072.4
RefSeq Size:	9685 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]

Product images:



Circular map for RG220956