

## Product datasheet for **MC222256**

### Hcn2 (NM\_008226) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hcn2 (NM_008226) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hcn2
Synonyms:	BCNG2; HAC1; trls
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC222256 representing NM\_008226  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGCGCGCGGGGGCGGGCGGGCGGCGATAGTCCGGGCACGACCCCTGCGCGGGGGCCGCCG  
 CACCGCCGCGCCGCCCGCCCTCAGCCTCAGCCACCACCCGCGCCACCCCGAACCCACGACCCC  
 CTCGACCCGGAGTCGGCGGACGAGCCCGCCGCGCGCCGGCTCTGCAGCCGCGACAGCGCTGCACC  
 CCTGGCGCGGCCAAGGGCGGCGGAATGGCGAGTGCGGGCGGGGAGCCGAGTGCAGCCCGAGGGCC  
 CCGCGCGCGCCCAAGGTTTCGTTCTCATGCCGCGGGCGGCCCTCCGGGCCCTCGGCGCCGAGGAGGC  
 GGGCAGCGAGGAGGGCCCGGCGGGTGAAGCCGCGGCGAGCCAGGCTAGCTTCTGCAGCGCAATTC  
 GGGGCGCTTCTGCAGCCCGCGTCAACAAGTTCTCCCTGCGGATGTTCCGAGCCAGAAGGCCGTGGAGC  
 GCGAGCAGGAACCGTGAAGTCGGCGGGGCGCTGGATCATCCACCCTACAGCGACTTCAGTTCTACTG  
 GGACTTACCATGCTGTTGTTTCATGGTGGAAATCTCATTATCATTCCCCTGGGCATCAGTTTCTCAAG  
 GACGAGACCACCGCCCTGGATCGTCTTCAACGTGGTCTCGGACACTTCTTCCCTCATGGACTTGGTGT  
 TGAATTCGCGACCGGCATTGTTATTGAGGACAACACGGAGATCATCCTGGACCCCGAGAAGATAAAGAA  
 GAAGTACTTGGTACGTGGTTCGTGGTGGACTTCGTGTCATCCATCCCGGTGGACTACATCTTCCCTATA  
 GTGGAGAAGGGAATCGACTCCGAGGTCTACAAGACAGCGCGTGTCTGCGCATCGTGCCTTACCAAGA  
 TCCTCAGTCTGCTGCGGCTGCTGCGGCTATCACGGCTCATCCGATATATCCACAGTGGGAAGAGATTTT  
 CCACATGACCTACGACCTGGCAAGTGCAGTGCATGCGCATCTGTAACTGATCAGCATGATGCTACTGCTC  
 TGCCACTGGGACGGTTGCCTGCAGTTCCTGGTCCCATGCTGCAAGACTTCCCAGCGACTGCTGGTGT  
 CCATCAACAACATGGTGAACCACTCGTGGAGCGAGCTACTCGTTCGCGCTCTTCAAGGCCATGAGCCA  
 CATGCTGTGCATCGGCTACGGGCGGCGAGGCGCCGAGAGCATGACAGACATCTGGCTGACCATGCTCAGC  
 ATGATCGTAGGCGCCACCTGCTATGCCATGTTTCATTGGGCACGCCACTGCGCTCATCCAGTCCCTGGATT  
 CGTCACGGCGCCAATACCAGGAGAAGTACAAGCAAGTAGAGCAATACATGTCTTCCACAACTGCCCGC  
 TGACTTCCGCCAGAAGATCCACGATTACTATGAACACCGGTACCAAGGGAAGATGTTTGTAGGACAGC  
 ATCCTTGGGGAACCAACGGGCACTGCGTGGAGGATTGTGAATTCAACTGCCGAAGCTGGTGGCTT  
 CCATGCCGCTGTTTGCCAAATGCAGACCCCAACTTCGTACAGCCATGCTGACAAAGCTCAAATTTGAGGT  
 CTTCCAGCCTGGAGATTACATCATCCGAGAGGGGACCATCGGGAAGAAGATGACTTCATCCAGCATGGG  
 GTGGTGAAGCTGCTACCAAGGGCAACAAGGAGATGAAGCTGTCGGATGGCTCCTATTTCCGGGAGATCT  
 GCTTGCTCAGAGGGGCCGGCGTACGGCCAGCGTGCAGCTGACACCTACTGTGCGCTCTACTACTGAG  
 TGTGGACAATTTCAACGAGGTGCTGGAGGAATACCCCATGATGCGGCGTGCCCTTGGAGACTGTGGCTATT  
 GACCGGCTAGATCGCATAGGCAAGAAGAACTCCATCTTGTGTCACAAGGTTGAGCATGATCTCAGCTCAG  
 GTGTGTTCAACAACCAGGAGAATGCCATCATCCAGGAGATTGTCAAATATGACCGTGAGATGGTGCAGCA  
 GGCAGAGCTTGGCCAGCGTGTGGGGCTCTTCCACCACCGCCACCACCGCAGGTACATCGGCCATTGCC  
 ACCCTACAGCAGGCTGTGGCCATGAGCTTCTGCCCGCAGGTGGCCCGCCCGCTCGTGGGGCCCTGGCGC  
 TAGGCTCCCCACGCTAGTGCGCCGCGCCCGCCAGGGCTCTGCCTCTGCAGCCTCGCCAGGGCCACC  
 CGCAGCAAGCCCCGGCTGCACCTCGAGCCCTCGGGCACCGCGGACCTCACCTACGGTGTGCCTGGC  
 TCTCCGGCAACGCGTGTGGGGCCCGATTGCCCGCACGTGCGCTGAGCCGCGCCTCGCGCCCACTGTCCG  
 CCTCGCAGCCCTCGTGCCTCATGGCGTGCCTCGCCGCGCCAGCCCCGCGCCTCTGCGCGCCCGCCAGCAG  
 CTCCACGCGCGCCTGGGACCGCACCCACCGCCGACCGCGCGCCAGTCCGGACCGCAGGGACTCA  
 GCCTCGCCGGGCGCTGCCAGTGGCTCGACCCACTGGACTCTGCGCGCTCGCGCCTCTTCCAACCTTGT  
 GA

**ACGGGCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-NotI  
**ACCN:** NM\_008226  
**Insert Size:** 2592 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008226.2</a> , <a href="#">NP_032252.1</a>
<b>RefSeq Size:</b>	3195 bp
<b>RefSeq ORF:</b>	2592 bp
<b>Locus ID:</b>	15166
<b>UniProt ID:</b>	<a href="#">O88703</a>
<b>Cytogenetics:</b>	10 C1
<b>Gene Summary:</b>	Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Can also transport ammonium in the distal nephron. Produces a large instantaneous current. [UniProtKB/Swiss-Prot Function]