

## Product datasheet for **MC222514**

### **Hcn1 (NM\_010408) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hcn1 (NM_010408) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hcn1
Synonyms:	Bcng1; C630013B14Rik; HAC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222514 representing NM\_010408  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGCGCGCGCAAACCCAACCTCCGCTCCAACAGCCGCGACGATGGCAACAGCGTCTTCCCCTCCA  
 AGGCGCCCGCGACGGGGCCGGTGGCGGCCGACAAGCGCCTGGGGACCCCGCGGGGGCGGCGCGGCCGG  
 GAAGGAACATGGCAACTCCGTGTGCTTCAAGGTGGACGGCGGAGGAGAGAGCCGGCGGCGAGCTTC  
 GAGGATGCCGAGGGGCCCGCGGCAGTATGGTTTCATGCAGAGGCAGTTCACCTCCATGCTGCAGCCTG  
 GGGTCAACAAATCTCCCTCCGATGTTTGGGAGCCAGAAGGCGGTGGAGAAGGAGCAGGAAAGGTTAA  
 AACTGCAGGCTTCTGGATTATCCATCCGTACAGTACTTCAGGTTTTATTGGATTTAATCATGCTTATA  
 ATGATGGTTGAAATTTGGTCATCATACCAGTTGGAATCACGTTCTTACAGAGCAGACGACAACACCGT  
 GGATTATTTTCAACGTGGCATCCGATACTGTTTCTGTTGGACTTAATCATGAATTTTAGGACTGGGAC  
 TGCAATGAAGACAGCTCGAAATCATCTGGACCCTAAAGTGATCAAGATGAATTTTAAAAAGCTGG  
 TTTGTGGTGGACTTCATCTCATCGATCCCGGTGGATTATATCTTTCTCATTGTAGAGAAAGGGATGGACT  
 CAGAAGTTTACAAGACAGCCAGAGCACTTCGTATCGTGAGGTTTACAAAAATTCAGTCTCTTGCGGTT  
 ATTACGCCTTTCAGGTTAATCAGATACATACACCAGTGGGAAGAGATATTCACATGACCTATGACCTC  
 GCCAGTGTGTGGTGGAGATCTTCAACCTCATTGGCATGATGCTGCTTCTGTGCCACTGGGATGGCTGTC  
 TTCAGTTCCTGGTTCCCTGTGCGAGGACTTCCCACCAGATTGCTGGGTTTCTCTGAATGAAATGGTTAA  
 TGATTCCTGGGAAAAACAATATTCCTACGCACTTCAAAGCTATGAGTCACATGCTGTGCATTGGTTAT  
 GCGCCCAAGCCCTGTGAGCATGTCTGACCTCTGGATTACCATGCTGAGCATGATTGTGGGCGCCACCT  
 CTACGCAATGTTTGTGGCCATGCCACAGCTTTGATCCAGTCTTTGGACTCTTCAAGGAGGCATCA  
 AGAGAAGTATAAGCAAGTAGAGCAATACATGTCATTCCACAAGTTACCAGCTGACATGCGCCAGAAGATA  
 CATGATTACTATGAGCACCGATACCAAGCAAGATCTTCGATGAAGAAAAATTCTCAGTGAAGTAAATG  
 ATCCTCTGAGAGAGGAAATAGTCAACTTCAACTGCCGAAACTGGTGGCAACTATGCCTCTTTTTGCTAA  
 CGCCGATCCCAATTTCTGACGGCCATGCTGAGCAAGCTGAGATTTGAGGTGTTCCAGCCCGGAGACTAT  
 ATCATTGAGAAGGAGCTGTGGGAAGAAAAATGATTTTCATCCAGCACGGTGTGCTGGCGTTATCACCA  
 AGTCCAGTAAAGAAATGAAGCTGACAGATGGCTTACTTCGGAGAGATATGCCTGCTGACCAAGGGCCG  
 GCGCACTGCCAGTGTCCGAGCTGATACCTACTGTCGTCTTACTCCCTTTCGGTGGACAATTTCAATGAG  
 GTCTTGGAGGAATATCCAATGATGAGAAGGCCTTTGAGACAGTTGCTATTGACCGACTCGATCGGATAG  
 GCAAGAAAAACTCTATTCTCCTGCAAGAAGTTCCAGAAGGATCTAAACACTGGTGTTTTCAACAACAGGA  
 GAACGAGATCCTGAAGCAGATCGTGAAGCATGACCGAGAGATGGTACAAGCTATCCCTCCAATCAACTAT  
 CCTCAAATGACAGCCCTCAACTGCACATCTTCAACCACCACCCCAACCTCCCGCATGAGGACCCAATCTC  
 CGCCAGTCTACACCGCAACCAGCCTGTCTCACAGCAATCTGCACTCACCCAGTCCAGCACACAGACGCC  
 CCAACCCTCAGCCATCCTTTCACCCTGCTCCTATACCACAGCAGTCTGCAGTCTCCTATACAGAGCCCC  
 CTGGCCACACGAACCTTCCATTATGCCTCTCCCACTGCGTCCCAGCTGTCACTCATGCAGCAGCCTCAGC  
 AGCAACTACCGCAGTCCAGGTACAGCAGACTCAGACTCAGACTCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
 CAGC  
 CCCTTCATAACCAACCTGACCAAGAAGTCAAGGCCCTTTCGCTCGCAGCCTTCTCTGCCCATGA  
 GGTCTCCACTTTGATCTCCAGACCTCATCCCACTGTGGGCGAATCCCTGGCCTCTATCCCTCAACCCGTG  
 GCAGCAGTCCACAGCACTGGCCTTCAGGCGGGAGCAGGAGCACAGTGCCACAACGTGTACCTTGTTC  
 GACAGATGCTCCTCGGAGCCATCCCCCAACCGAGGAGTGCCTCCAGCACCCCTCCACCAGCAGTGT  
 GCAGAGAGAGTCTCCCTCAGTCTAAATACAGACCCAGATGCAGAAAAACCCGTTTTGCTCGAATTTA  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

<b>ACCN:</b>	NM_010408
<b>Insert Size:</b>	2733 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_010408.3</a> , <a href="#">NP_034538.2</a>
<b>RefSeq Size:</b>	7911 bp
<b>RefSeq ORF:</b>	2733 bp
<b>Locus ID:</b>	15165
<b>UniProt ID:</b>	<a href="#">O88704</a>
<b>Cytogenetics:</b>	13 66.34 cM
<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). May mediate responses to sour stimuli.[UniProtKB/Swiss-Prot Function]