

## Product datasheet for **RG216099**

### HCN3 (NM\_020897) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCN3 (NM_020897) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216099 representing NM\_020897  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCAGAGCAGCGGCCGGCGGGGCCAGCGAAGGGGCGACCCCTGGACTGGAGGCGGTGCCTC  
 CGTTGCTCCCCGCCTGCGACCGCGCCTCAGGTCCGATCCCCAAATCTGGGCCTGAGCCTAAGAGGAG  
 GCACCTTGGGACGCTGCTCCAGCCTACGGTCAACAAGTTCTCCCTTCGGGTGTTCCGGCAGCCACAAAGCA  
 GTGAAATCGAGCAGGAGCGGGTGAAGTCAGCGGGGCCCTGGATCATCCACCCCTACAGCGACTTCCGGT  
 TTTACTGGGACCTGATCATGCTGCTGCTGATGGTGGGAACCTCATCGTCTGCCTGTGGGCATCACCTT  
 CTTCAAGGAGGAGAACTCCCCGCCTGGATCGTCTTCAACGTATTGTCTGATACTTTCTTCTACTGGAT  
 CTGGTGTCAACTCCGAACGGGCATCGTGGTGGAGGAGGGTGTGAGATCCTGTGGCACCAGCGGGCCA  
 TCCGCACGCGCTACCTGCGCACCTGGTTCTGGTTGACCTCATCTTCTATCCCTGTGGATTACATCTT  
 CCTAGTGGTGGAGCTGGAGCCACGGTTGGACGCTGAGGTCTACAAAACGGCACGGGCCCTACGCATCGTT  
 CGCTTACCAAGATCCTAAGCCTGCTGAGGCTGCTCCGCCTCTCCCGCCTCATCCGCTACATACACCAAGT  
 GGGAGGAGATCTTTCACATGACCTATGACCTGGCCAGTGTGTGGTTTCGATCTTCAACCTCATTGGGAT  
 GATGCTGCTGCTATGTCACTGGGATGGCTGTGTCAGTTCCTGGTGCCCATGCTGCGAGGACTTCCCTCCC  
 GACTGTGGGTCTCCATCAACCACATGGTGAACCACTCGTGGGGCCGCCAGTATTCCTATGCCCTGTTCA  
 AGGCCATGAGCCACATGCTGTGCATTGGCTATGGGCAGCAGGCACCTGTAGGCATGCCCGACGTCTGGCT  
 CACCATGCTCAGCATGATCGTAGGTGCCACATGCTACGCCATGTTTCATCGCCATGCCACGGCACTCATC  
 CAGTCCCTGGACTCTTCCCGCGTCACTACCAGGAGAAGTACAAGCAGGTGGAGCAGTACATGCTCTTCC  
 ACAAGCTGCCAGCAGACACGGCAGCGCATCCACGAGTACTATGAGCACCGCTACCAGGGCAAGATGTT  
 CGATGAGGAAAGCATCCTGGGCGAGCTGAGCGAGCCGCTTCGCGAGGAGATCATTAACTTACCTGTCCG  
 GGCTGTGGCCACATGCCGCTGTTTGGCCATGCCGACCCAGCTTCGTCAGTGCAGTTCACCAAGC  
 TGCGCTTTGAGGTCTTCCAGCCGGGGATCTCGTGGTGCCTGAGGGCTCCGTGGGAGGAAGATGTA  
 CACTCCAGCATGGGCTGCTCAGTGTGCTGGCCCGCGCCCGGGACACACGCCTCACCGATGGATCCTAC  
 TTTGGGAGATCTGCCTGCTAACTAGGGGCCGGCGCACAGCCAGTGTTCGGGCTGACACCTACTGCCGCC  
 TTTACTCACTCAGCGTGGACATTTCAATGCTGTGCTTGAGGAGTTCCTCATGTCGCCGGGCTTTGA  
 GACTGTGGCCATGGATCGGCTGCTCCGCATCGGAAGAAGAATTCATACTGCAGCGGAAGCGCTCCGAG  
 CCAAGTCCAGGCAGCAGTGGTGGCATCATGGAGCAGCACTTGGTGAACATGACAGAGACATGGCTCGGG  
 GTGTTCCGGGTCGGGCCCGAGCACAGGAGCTCAGCTTAGTGAAAGCCAGTACTGTGGGAGCCACTGGT  
 ACATGCGCCCTTCAGGCAGTGTGTGACCTCCAATGTGGCCATTGCCCTGACTCATCAGCGGGGCCCT  
 CTGCCCTCTCCCTGACTCTCCAGCCACCCTCCTTGCTCGCTCTGCTTGGCGCTCAGCAGGCTCTCCAG  
 CTTCCCGCTGGTGCCCGTCCGAGCTGGCCATGGGCATCCACCTCCCGCCTGCCCGCCCACTGCCCG  
 AACCTGCACGCCAGCCTATCCCGGCAGGGCGCTCCAGGTCTCCCTGTGGTCCCCCTCCAGGAGGA  
 GGTGGACGGCGGCTAGGACCTCGGGCCGCCACTCTCAGCTCCCAACCCTCTCTGCCTCAGCGGGCAA  
 CAGGCGATGGCTCTCCTGGGCGTAAGGGATCAGGAAGTGAGCGGCTGCCTCCCTCAGGGCTCCTGGCAA  
 ACCTCCAAGGACAGCCAGCCCCCAGGCCACCAAGTGCCTGAGCCAGCCACACCCGGGGTCTCCAGCTT  
 TCTGCCAACATG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG216099 representing NM\_020897  
Red=Cloning site Green=Tags(s)

```
MEAEQRPAAGASEGATPGLA VPPVAPPATAASGPIPKSGPEPKRRHLGTL LQPTV NKFSLRVFGSHKA
VEIEQERVKSAGAWI IHPYSDFRFYWDL IMLLLMVG NLI VLPVGI TFFKEENSP PWIVFNVLSDTFFLLD
LVLNFRTGIVVEEGAE ILLAPRAIRTRYLR TWFLVDL ISSIPVDYIFL VVELEPRLDAEVYKTARALRIV
RFTKILSLLRLLRL SRLIRYI HQWEEIFHMTYDLASAVVRIFNL IGMMLLLCHWDGCLQFLVPMLQDFPP
DCWVSINHMVNH SWGRQYSHALFKAMSHMLCIGYQQAPVGM PDVWL TMLSMIVGATCYAMFIGHATALI
QSLDSSRRQYQEKYKQVEQYMSFHKL PADTRQRIHEYYEHRYQGKMFDEESILGELSEPLREEIINFTCR
GLVAHMP LFAHADPSFVTAVLTKLRFEVFPQGD LVVREGSVGRKMYFIQHGLLSVLARGARDTRLTDGSY
FGEICLLTRGRRTASVRADTYCRLYSLSVDHFN AVLEEFPMRRAFETVAMDRLLRIGKKN SILQRKRSE
PSPGSSGGIMEQHLVQH DRDMARGVRGRAPSTGAQLSGKPVLWEPLVHAPLQAAAVT SNVAIALTHQRGP
LPLSPDSPATLLARS AWRSAGSPASPLVPVRAGPWASTSRLPAPPARTLHASLSRAGRSQV SLLGPPPGG
GRRRLGPRGRPLSASQPSLPQRATGDGSPGRKGS GSERLPPSGLLAKPPRTAQPPRPPVPEPATPRGLQL
SANM
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020897

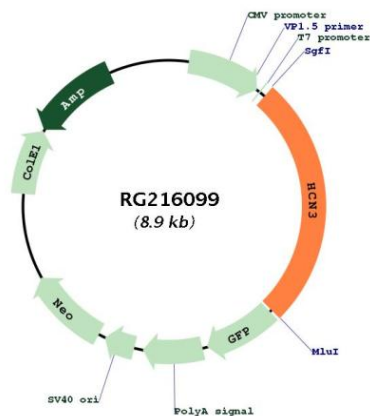
**ORF Size:** 2322 bp

**OTI Disclaimer:** 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](#)

**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:**
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\\_020897.3](#)
- RefSeq Size:** 3717 bp
- RefSeq ORF:** 2325 bp
- Locus ID:** 57657
- UniProt ID:** [Q9P1Z3](#)
- Cytogenetics:** 1q22
- Protein Families:** Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
- Gene Summary:** This gene encodes a multi-pass membrane protein that functions as a voltage gated cation channel. The encoded protein is a member of a family of closely related cyclic adenosine monophosphate-binding channel proteins. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

**Product images:**



Circular map for RG216099