

## Product datasheet for **SC303651**

### HCN4 (NM\_005477) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCN4 (NM_005477) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCN4
Synonyms:	SSS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC303651 sequence for NM_005477 edited (data generated by NextGen Sequencing)

```
ATGGACAAGTGCCGCCGTCATGCGCAAGCGGCTCTACAGCCTCCCGCAGCAGGTGGGGGCCAAGGCGT
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CATGTCCTTTACAAGCTCCCGCCGACACCCGGCAGCGCATCCACGACTACTACGAGCACCCTACCAG
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GTTTGGGCAAGAGCCACCTCTTCTGGGGGCCCTCTGACTGCTGGACCCAGAGGGAACCTGGGGCC
AGGCTGAGCCAGTGGCTCCAACTGCCATCCAATCTA TGA
    
```

Clone variation with respect to NM\_005477.2

- Restriction Sites:** Please inquire
- ACCN:** NM\_005477
- Insert Size:** 3600 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_005477.1.
- 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\\_005477.1](#), [NP\\_005468.1](#)

**RefSeq Size:** 7245 bp

**RefSeq ORF:** 3612 bp

**Locus ID:** 10021

**UniProt ID:** [Q9Y3Q4](#)

**Cytogenetics:** 15q24.1

**Domains:** cNMP, ion\_trans

**Protein Families:** Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane

**Gene Summary:** This gene encodes a member of the hyperpolarization-activated cyclic nucleotide-gated potassium channels. The encoded protein shows slow kinetics of activation and inactivation, and is necessary for the cardiac pacemaking process. This channel may also mediate responses to sour stimuli. Mutations in this gene have been linked to sick sinus syndrome 2, also known as atrial fibrillation with bradyarrhythmia or familial sinus bradycardia. Two pseudogenes have been identified on chromosome 15. [provided by RefSeq, Oct 2008]