



## Cell Line Stably Expressing the Human Heart Sodium Channel Beta1 Subunit

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**The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in a stably transfected cell line expressing the beta1 subunit of the human heart sodium channel.**

### Overview

The human heart sodium channel beta1 subunit is a protein encoded by a single gene. It interacts with the alpha subunit to alter the functional properties of the channel.

### The Invention

UW-Madison researchers have developed a stably transfected cell line expressing the beta1 subunit of the human heart sodium channel. The beta1 subunit was first cloned in the early 1990s. The researchers have now re-cloned this subunit and created a cell line that permanently expresses it.

### Applications

- Drug testing and screening

### Key Benefits

- Allows electrophysiological and pharmacological studies free from interference of other ion channels
- Only an alpha subunit needs to be transiently transfected into this cell line to conduct experiments with the combined subunits, saving the trouble and expense of co-transfection with both subunits

### Additional Information

#### For More Information About the Inventors

- [Jonathan Makielski](#)

#### Tech Fields

- [Drug Discovery & Development : Preclinical testing](#)
- [Research Tools : Cell lines](#)

For current licensing status, please contact Jennifer Gottwald at [jennifer@warf.org](mailto:jennifer@warf.org) or 608-960-9854