

## Product datasheet for **SR305895**

### CACNA1G Human siRNA Oligo Duplex (Locus ID 8913)

#### Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<a href="#">NM_001256324</a> , <a href="#">NM_001256325</a> , <a href="#">NM_001256326</a> , <a href="#">NM_001256327</a> , <a href="#">NM_001256328</a> , <a href="#">NM_001256329</a> , <a href="#">NM_001256330</a> , <a href="#">NM_001256331</a> , <a href="#">NM_001256332</a> , <a href="#">NM_001256333</a> , <a href="#">NM_001256334</a> , <a href="#">NM_001256359</a> , <a href="#">NM_001256360</a> , <a href="#">NM_001256361</a> , <a href="#">NM_018896</a> , <a href="#">NM_198376</a> , <a href="#">NM_198377</a> , <a href="#">NM_198378</a> , <a href="#">NM_198379</a> , <a href="#">NM_198380</a> , <a href="#">NM_198382</a> , <a href="#">NM_198383</a> , <a href="#">NM_198384</a> , <a href="#">NM_198385</a> , <a href="#">NM_198386</a> , <a href="#">NM_198387</a> , <a href="#">NM_198388</a> , <a href="#">NM_198396</a> , <a href="#">NM_198397</a> , <a href="#">NR_046054</a> , <a href="#">NR_046055</a> , <a href="#">NR_046056</a> , <a href="#">NR_046057</a> , <a href="#">NR_046058</a>
UniProt ID:	<a href="#">O43497</a>
Synonyms:	Ca(V)T.1; Cav3.1; NBR13; SCA42; SCA42ND
Components:	CACNA1G (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 8913) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Voltage-sensitive calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division, and cell death. This gene encodes a T-type, low-voltage activated calcium channel. The T-type channels generate currents that are both transient, owing to fast inactivation, and tiny, owing to small conductance. T-type channels are thought to be involved in pacemaker activity, low-threshold calcium spikes, neuronal oscillations and resonance, and rebound burst firing. Many alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Sep 2011]



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**Performance  
Guaranteed:**

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data required).