

## Product datasheet for **SR300542**

### CACNA1C Human siRNA Oligo Duplex (Locus ID 775)

#### 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_000719</a> , <a href="#">NM_001129827</a> , <a href="#">NM_001129829</a> , <a href="#">NM_001129830</a> , <a href="#">NM_001129831</a> , <a href="#">NM_001129832</a> , <a href="#">NM_001129833</a> , <a href="#">NM_001129834</a> , <a href="#">NM_001129835</a> , <a href="#">NM_001129836</a> , <a href="#">NM_001129837</a> , <a href="#">NM_001129838</a> , <a href="#">NM_001129839</a> , <a href="#">NM_001129840</a> , <a href="#">NM_001129841</a> , <a href="#">NM_001129842</a> , <a href="#">NM_001129843</a> , <a href="#">NM_001129844</a> , <a href="#">NM_001129846</a> , <a href="#">NM_001167623</a> , <a href="#">NM_001167624</a> , <a href="#">NM_001167625</a> , <a href="#">NM_199460</a>
UniProt ID:	<a href="#">Q13936</a>
Synonyms:	CACH2; CACN2; CACNL1A1; CaV1.2; CCHL1A1; LQT8; TS; TS. LQT8
Components:	CACNA1C (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 775) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	This gene encodes an alpha-1 subunit of a voltage-dependent calcium channel. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. The alpha-1 subunit consists of 24 transmembrane segments and forms the pore through which ions pass into the cell. The calcium channel consists of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. There are multiple isoforms of each of these proteins, either encoded by different genes or the result of alternative splicing of transcripts. The protein encoded by this gene binds to and is inhibited by dihydropyridine. Alternative splicing results in many transcript variants encoding different proteins. Some of the predicted proteins may not produce functional ion channel subunits. [provided by RefSeq, Oct 2012]



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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).