

## Product datasheet for **SR300586**

### Calpastatin (CAST) Human siRNA Oligo Duplex (Locus ID 831)

#### 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_001042440</a> , <a href="#">NM_001042441</a> , <a href="#">NM_001042442</a> , <a href="#">NM_001042443</a> , <a href="#">NM_001042444</a> , <a href="#">NM_001042445</a> , <a href="#">NM_001042446</a> , <a href="#">NM_001190442</a> , <a href="#">NM_001284212</a> , <a href="#">NM_001284213</a> , <a href="#">NM_001330626</a> , <a href="#">NM_001330627</a> , <a href="#">NM_001330628</a> , <a href="#">NM_001330629</a> , <a href="#">NM_001330630</a> , <a href="#">NM_001330631</a> , <a href="#">NM_001330632</a> , <a href="#">NM_001330633</a> , <a href="#">NM_001330634</a> , <a href="#">NM_001750</a> , <a href="#">NM_173060</a> , <a href="#">NM_173061</a> , <a href="#">NM_173062</a> , <a href="#">NM_173063</a> , <a href="#">NR_033798</a> , <a href="#">NR_104285</a>
UniProt ID:	<a href="#">P20810</a>
Synonyms:	BS-17; PLACK
Components:	CAST (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 831) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]



[View online »](#)

**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).