

Product datasheet for **SR300201**

Ankyrin brain (ANK2) Human siRNA Oligo Duplex (Locus ID 287)

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:	NM_001127493 , NM_001148 , NM_020977 , NM_001354225 , NM_001354228 , NM_001354230 , NM_001354231 , NM_001354232 , NM_001354235 , NM_001354236 , NM_001354237 , NM_001354239 , NM_001354240 , NM_001354241 , NM_001354242 , NM_001354243 , NM_001354244 , NM_001354245 , NM_001354246 , NM_001354249 , NM_001354252 , NM_001354253 , NM_001354254 , NM_001354255 , NM_001354256 , NM_001354257 , NM_001354258 , NM_001354260 , NM_001354261 , NM_001354262 , NM_001354264 , NM_001354265 , NM_001354266 , NM_001354267 , NM_001354268 , NM_001354269 , NM_001354270 , NM_001354271 , NM_001354272 , NM_001354273 , NM_001354274 , NM_001354275 , NM_001354276 , NM_001354277 , NM_001354278 , NM_001354279 , NM_001354280 , NM_001354281 , NM_001354282
UniProt ID:	Q01484
Synonyms:	ANK-2; brank-2; CFAP87; FAP87; LQT4
Components:	ANK2 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 287) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml



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Summary:

This gene encodes a member of the ankyrin family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrins play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. The protein encoded by this gene is required for targeting and stability of Na/Ca exchanger 1 in cardiomyocytes. Mutations in this gene cause long QT syndrome 4 and cardiac arrhythmia syndrome. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Dec 2011]

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. 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).