

Product datasheet for SR319425

OriGene Technologies, Inc.

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ATP2B2 Human siRNA Oligo Duplex (Locus ID 491)

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 001001331, NM 001330611, NM 001683, NM 001353564, NM 001363862

UniProt ID: Q01814

Synonyms: PMCA2; PMCA2a; PMCA2i

Components: ATP2B2 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 491)

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 belongs to the family of P-type primary ion transport

ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against

very large concentration gradients and play a critical role in intracellular calcium

homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at

least four separate genes and the diversity of these enzymes is further increased by

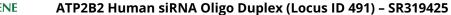
alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This

gene encodes the plasma membrane calcium ATPase isoform 2. Alternatively spliced

transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul

2008]







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).