

Product datasheet for TL314595

ATP2A1 Human shRNA Plasmid Kit (Locus ID 487)

Product data:

Product Type: shRNA Plasmids

Product Name: ATP2A1 Human shRNA Plasmid Kit (Locus ID 487)

Locus ID: 487

Synonyms: ATP2A; SERCA1

Vector:pGFP-C-shLenti (TR30023)E. coli Selection:Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: ATP2A1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 487).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 001286075, NM 004320, NM 173201, NM 173201.1, NM 173201.2, NM 173201.3,

NM 004320.1, NM 004320.2, NM 004320.3, NM 004320.4, NM 001286075.1, BC037354,

BC104452, BC104453, BC148653, NM 004320.6, NM 173201.4

UniProt ID: 014983

Summary: This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in

the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease,

characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq,

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shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact techsupport@origene.com.

If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, 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 shRNA control (Western Blot data preferred).