

Product datasheet for TL314576

OriGene Technologies, Inc.

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ATP5S Human shRNA Plasmid Kit (Locus ID 27109)

Product data:

Product Type: shRNA Plasmids

Product Name: ATP5S Human shRNA Plasmid Kit (Locus ID 27109)

Locus ID: 27109

Synonyms: ATP5S; ATPW; FB; HSU79253

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: ATP5S - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 27109).

5µg purified plasmid DNA per construct

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

RefSeq: BC011549, NM 001003803, NM 001003805, NM 015684, NR 033761, NM 001003805.1,

NM 001003805.2, NM 015684.1, NM 015684.2, NM 015684.3, NM 001003803.1,

NM 001003803.2, BC011549.1, BC087851, NM 001370605

UniProt ID: Q99766

Summary: This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase

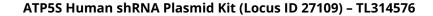
catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multisubunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. This gene encodes the subunit s, also known as factor B, of the proton channel. This subunit is necessary for the energy transduction activity of the ATP synthase complexes. Alternatively spliced transcript variants encoding different isoforms

have been identified. [provided by RefSeq, Jul 2008]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our custom shRNA service.







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).