

Product datasheet for TL310622

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PAICS Human shRNA Plasmid Kit (Locus ID 10606)

Product data:

Product Type: shRNA Plasmids

Product Name: PAICS Human shRNA Plasmid Kit (Locus ID 10606)

Locus ID: 10606

Synonyms: ADE2; ADE2H1; AIRC; PAIS

Vector: pGFP-C-shLenti (TR30023)

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

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: PAICS - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 10606).

5µg purified plasmid DNA per construct

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

RefSeq: NM 001079524, NM 001079525, NM 006452, NM 001079524.1, NM 006452.1, NM 006452.2,

NM 006452.3, NM 001079525.1, BC010273, BC019255, BM807012, NM 001079524.2,

NM 001079525.2

UniProt ID: P22234

Summary: This gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole

carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole

succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes

an enzyme in the same pathway, and transcription of the two genes is coordinately

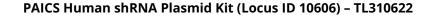
regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul

20081

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).