

Product datasheet for TG314870

OriGene Technologies, Inc.

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AK3L1 (AK4) Human shRNA Plasmid Kit (Locus ID 205)

Product data:

Product Type: shRNA Plasmids

Product Name: AK3L1 (AK4) Human shRNA Plasmid Kit (Locus ID 205)

Locus ID: 205

Synonyms: AK3; AK3L1; AK3L2; AK 4

Vector: pGFP-V-RS (TR30007)

E. coli Selection: Kanamycin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: AK4 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 205). 5µg

purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.

RefSeq: NM 001005353, NM 001330616, NM 013410, NM 203464, NM 203464.1, NM 203464.2,

NM 013410.1, NM 013410.2, NM 013410.3, NM 001005353.1, NM 001005353.2, BC040224, BC040224.1, BC016180, BC066944, BC136886, BC136887, BC146653, BC148270, BM763432,

NM 013410.4

UniProt ID: P27144

Summary: This gene encodes a member of the adenylate kinase family of enzymes. The encoded

protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM 013410, NM 203464, and NM 001005353 is located on

chromosome 1. [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 <u>custom shRNA service</u>.







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).