

Product datasheet for TR311849

KPNA5 Human shRNA Plasmid Kit (Locus ID 3841)

Product data:

Product Type: shRNA Plasmids

Product Name: KPNA5 Human shRNA Plasmid Kit (Locus ID 3841)

Locus ID: 3841

Synonyms: IPOA6; SRP6

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: KPNA5 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

3841). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: <u>NM 002269</u>, <u>NM 002269.1</u>, <u>NM 002269.2</u>, <u>BC047409</u>, <u>BC047409.1</u>, <u>NM 001366305</u>,

NM 001366306, NM 001366308, NM 001366304, NM 001366307, NM 001366309,

NM 001366310, NM 002269.3

UniProt ID: 015131

Summary: The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is

mediated by the nuclear pore complex (NPC) which consists of 60-100 proteins and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; larger molecules are transported by an active process. Most nuclear proteins contain short basic amino acid sequences known as nuclear localization signals (NLSs). KPNA5 protein belongs to the importin alpha protein family and is thought to be involved in NLS-dependent protein import into the nucleus.

[provided by RefSeq, Jul 2008]

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

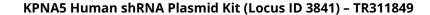
be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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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).