

Product datasheet for TL311044

OriGene Technologies, Inc.

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ornithine aminotransferase (OAT) Human shRNA Plasmid Kit (Locus ID 4942)

Product data:

Product Type: shRNA Plasmids

Product Name: ornithine aminotransferase (OAT) Human shRNA Plasmid Kit (Locus ID 4942)

Locus ID: 4942

Synonyms: GACR; HOGA; OATASE; OKT

Vector: pGFP-C-shLenti (TR30023)

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

Mammalian Cell

Puromycin

Selection:

Format: Lentiviral plasmids

Components: OAT - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 4942). 5µg

purified plasmid DNA per construct

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

RefSeq: NM 000274, NM 001171814, NM 001322965, NM 001322966, NM 001322967,

NM 001322968, NM 001322969, NM 001322970, NM 001322971, NM 001322974, NM 000274.1, NM 000274.2, NM 000274.3, NM 001171814.1, BC000964, BC016928,

NM 000274.4

UniProt ID: P04181

Summary: This gene encodes the mitochondrial enzyme ornithine aminotransferase, which is a key

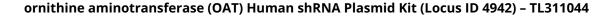
enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA. Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy. Alternatively spliced transcript variants encoding different isoforms have been described. Related pseudogenes

have been defined on the X chromosome. [provided by RefSeq, Jan 2010]

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).