

Product datasheet for TR311350

OriGene Technologies, Inc.

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Melatonin Receptor 1A (MTNR1A) Human shRNA Plasmid Kit (Locus ID 4543)

Product data:

Product Type: shRNA Plasmids

Product Name: Melatonin Receptor 1A (MTNR1A) Human shRNA Plasmid Kit (Locus ID 4543)

Locus ID: 4543

Synonyms: MEL-1A-R; MT1

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell

Puromycin

Selection: Format:

Retroviral plasmids

Components: MTNR1A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

4543). 5µg purified plasmid DNA per construct

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

RefSeq: NM 005958, NM 005958.1, NM 005958.2, NM 005958.3, NM 005958.4, BC074947,

BC074947.2, BC074946, BC113816, BC126297, BC126299

UniProt ID: P48039

Summary: This gene encodes one of two high affinity forms of a receptor for melatonin, the primary

hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-

transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral

membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic nucleus appears to be involved in circadian rhythm while the hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin.

[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>.





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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).