

## Product datasheet for TG311067

## **NUDT5 Human shRNA Plasmid Kit (Locus ID 11164)**

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** NUDT5 Human shRNA Plasmid Kit (Locus ID 11164)

Locus ID:

Synonyms: hNUDT5; YSA1; YSA1H; YSAH1

Vector: pGFP-V-RS (TR30007)

E. coli Selection: Kanamycin Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: NUDT5 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 11164).

5µg purified plasmid DNA per construct

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

NM 001321647, NM 001321648, NM 014142, NM 014142.1, NM 014142.2, NM 014142.3, RefSeq:

BC000025, BC000025.2, NM 014142.4

**UniProt ID:** O9UKK9

**Summary:** This gene belongs to the Nudix (nucleoside diphosphate linked moiety X) hydrolase

superfamily. The encoded enzyme catalyzes the hydrolysis of modified nucleoside

diphosphates, including ADP-ribose (ADPR) and 8-oxoGua-containing 8-oxo-dADP and 8-oxodGDP. Protein-bound ADP ribose can be hazardous to the cell because it can modify some amino acid residues, resulting in the inhibition of ATP-activated potassium channels. 8oxoGua is an oxidized form of guanine that can potentially alter genetic information by pairing with adenine and cytosine in RNA. Presence of 8-oxoGua in RNA results in formation

of abnormal proteins due to translational errors. [provided by RefSeq, Aug 2013]

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

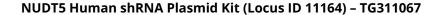
> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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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).