

# Product datasheet for TL307009

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OriGene Technologies, Inc.

## NAT8B Human shRNA Plasmid Kit (Locus ID 51471)

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** NAT8B Human shRNA Plasmid Kit (Locus ID 51471)

Locus ID:

CML2; Hcml2; NAT8BP Synonyms:

Vector: pGFP-C-shLenti (TR30023)

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

Mammalian Cell

Puromycin

Selection:

Format: Lentiviral plasmids

Components: NAT8B - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 51471).

5µg purified plasmid DNA per construct

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

NM 016347, NR 132338, NM 016347.1, NM 016347.2, BC069564, BC121101, BC121102, RefSeq:

BC160071

UniProt ID: O9UHF3

**Summary:** The protein encoded by this gene is highly similar to the N-acetyltransferase 8 (NAT8) gene

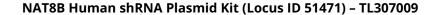
> product, which is a kidney and liver protein with homology to bacterial acetyltransferases involved in drug resistance. This gene is localized on chromosome 2 in the vicinity of the NAT8 gene and may represent a pseudogene of NAT8. This gene contains two polymorphic nonsense mutations that disrupt the active site of the protein. The full-length product of this gene contains a complete acetyltransferase domain and is identical in length to NAT8.

[provided by RefSeq, Jul 2008]

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

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







# 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).