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Product datasheet for TR311265

NAT1 Human shRNA Plasmid Kit (Locus ID 9)

Product data:

Product Type:	shRNA Plasmids
Product Name:	NAT1 Human shRNA Plasmid Kit (Locus ID 9)
Locus ID:	9
Synonyms:	AAC1; MNAT; NAT-1; NATI
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NAT1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 9). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_000662, NM_001160170, NM_001160171, NM_001160172, NM_001160173, NM_001160174, NM_001160175, NM_001160176, NM_001160179, NM_001291962, NM_000662.1, NM_000662.2, NM_000662.3, NM_000662.4, NM_000662.5, NM_000662.6, NM_000662.7, NM_001160175.1, NM_001160175.2, NM_001160175.3, NM_001160176.1, NM_001160176.2, NM_001160176.3, NM_001160179.1, NM_001160179.2, NM_001160170.1, NM_001160170.2, NM_001160170.3, NM_001160171.1, NM_001160171.2, NM_001160171.3, NM_001160172.1, NM_001160172.2, NM_001160172.3, NM_001160173.1, NM_001160173.3, NM_001160174.1, NM_001160174.2, NM_001291962.1, BC047666, BC013732, BM924372, NM_001160172.4, NM_001291962.2, NM_001160170.4, NM_001160171.4, NM_001160179.3, NM_001160175.4, NM_001160176.4, NM_000662.8
UniProt ID:	P18440
Summary:	This gene is one of two arylamine N-acetyltransferase (NAT) genes in the human genome, and is orthologous to the mouse and rat Nat2 genes. The enzyme encoded by this gene catalyzes the transfer of an acetyl group from acetyl-CoA to various arylamine and hydrazine substrates. This enzyme helps metabolize drugs and other xenobiotics, and functions in folate catabolism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

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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.

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).