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Product datasheet for TR309377

Solute carrier family 22 member 18 (SLC22A18) Human shRNA Plasmid Kit (Locus ID 5002)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Solute carrier family 22 member 18 (SLC22A18) Human shRNA Plasmid Kit (Locus ID 5002)
Locus ID:	5002
Synonyms:	BWR1A; BWSCR1A; HET; IMPT1; ITM; ORCTL2; p45-BWR1A; SLC22A1L; TSSC5
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SLC22A18 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5002). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001315501, NM_001315502, NM_002555, NM_183233, NM_183233.1, NM_183233.2, NM_002555.1, NM_002555.2, NM_002555.3, NM_002555.4, NM_002555.5, BC015571, BC015571.2, BM561526
UniProt ID:	Q96BI1
Summary:	This gene is one of several tumor-suppressing subtransferable fragments located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene is imprinted, with preferential expression from the maternal allele. Mutations in this gene have been found in Wilms' tumor and lung cancer. This protein may act as a transporter of organic cations, and have a role in the transport of chloroquine and quinidine-related compounds in kidney. Several alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Oct 2015]
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).