

Product datasheet for **TR301548**

SLC5A12 Human shRNA Plasmid Kit (Locus ID 159963)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SLC5A12 Human shRNA Plasmid Kit (Locus ID 159963)
Locus ID:	159963
Synonyms:	DKFZp564G223; MGC52019; SMCT2; sodium-iodide related cotransporter; solute carrier family 5 (sodium/glucose cotransporter), member 12
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SLC5A12 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 159963). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001042366 , NM_178498 , NM_178498.1 , NM_178498.2 , NM_178498.3 , NM_001042366.1 , BC029048 , BC041454 , BC049207 , BM924715 , NM_178498.4
UniProt ID:	Q1EHB4
Summary:	Normal blood lactate is maintained at about 1.5 mM, and little filtered lactate is excreted in urine. Reabsorption of lactate is mediated by the low-affinity Na(+)-coupled lactate transporter SLC5A12 in the initial part of the proximal tubule and by the high-affinity Na(+)-coupled lactate transporter SLC5A8 (MIM 608044) in the distal proximal tubule (Gopal et al., 2007 [PubMed 17692818]).[supplied by OMIM, Dec 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 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).