

Product datasheet for **TR301570**

SLC39A14 Human shRNA Plasmid Kit (Locus ID 23516)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SLC39A14 Human shRNA Plasmid Kit (Locus ID 23516)
Locus ID:	23516
Synonyms:	cig19; HCIN; HMNDYT2; LZT-Hs4; NET34; ZIP14
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SLC39A14 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23516). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001128431 , NM_001135153 , NM_001135154 , NM_015359 , NM_001351655 , NM_001351656 , NM_001351657 , NM_001351658 , NM_001351659 , NM_001351660 , NM_015359.1 , NM_015359.2 , NM_015359.3 , NM_015359.4 , NM_001135154.1 , NM_001128431.1 , NM_001128431.2 , NM_001135153.1 , BC015770 , BC000068 , NM_015359.6 , NM_001128431.4 , NM_001135153.3 , NM_001135154.3
UniProt ID:	Q15043
Summary:	This gene encodes a member of the the SLC39A family of divalent metal transporters that mediates the cellular uptake of manganese, zinc, iron, and cadmium. The encoded protein contains eight transmembrane domains, a histidine-rich motif, and a metalloprotease motif, and is expressed on the plasma membrane and the endocytic vesicle membrane. It is an important transporter of nontransferrin-bound iron and a critical regulator of manganese homeostasis. Naturally occurring mutations in this gene are associated with neurodegeneration with brain iron accumulation and early-onset parkinsonism-dystonia with hypermanganesemia. [provided by RefSeq, May 2017]
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).