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Product datasheet for TL301578V

SLC38A1 Human shRNA Lentiviral Particle (Locus ID 81539)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	SLC38A1 Human shRNA Lentiviral Particle (Locus ID 81539)
Locus ID:	81539
Synonyms:	ATA1; NAT2; SAT1; SNAT1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	SLC38A1 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001077484, NM_001278387, NM_001278388, NM_001278389, NM_001278390, NM_030674, NM_001077484.1, NM_030674.1, NM_030674.2, NM_030674.3, NM_001278387.1, NM_001278388.1, NM_001278389.1, NM_001278390.1, BC010620, BC010620.1, NM_001278389.2, NM_001077484.2, NM_001278387.2, NM_030674.4, NM_001278388.2
UniProt ID:	Q9H2H9
Summary:	Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 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.

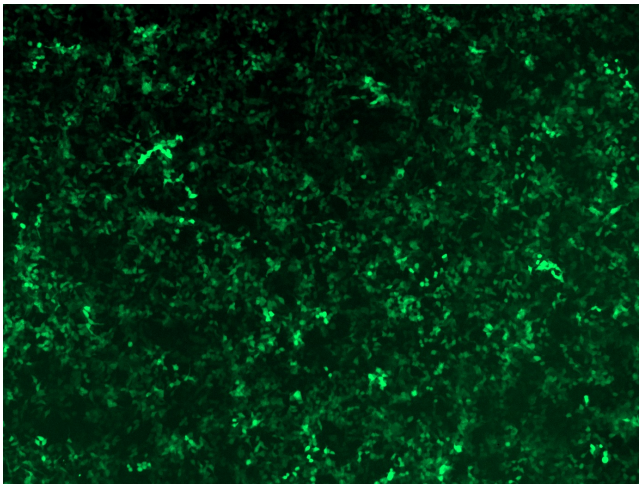
View online »

Performance Guaranteed:

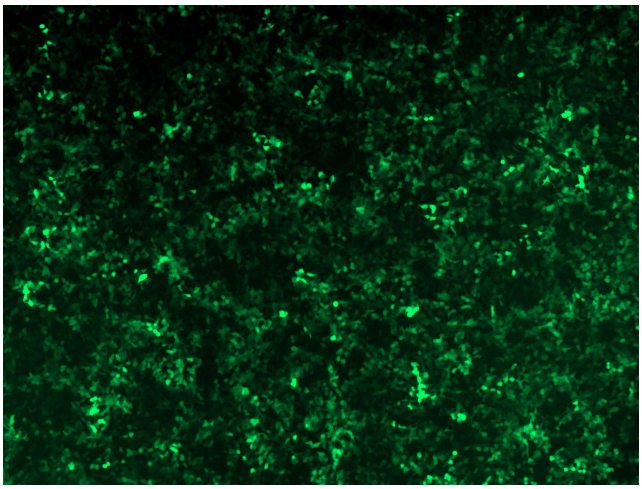
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

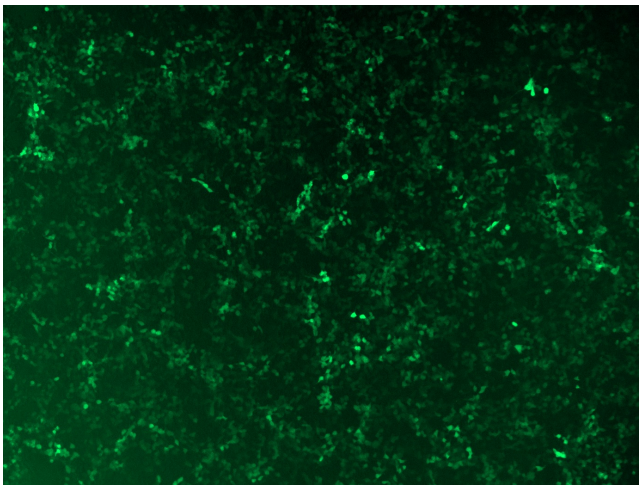
Product images:



GFP signal was observed under microscope at 48 hours after transduction of TL301578B virus into HEK293 cells. TL301578B virus was prepared using lenti-shRNA TL301578B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL301578C] virus into HEK293 cells. [TL301578C] virus was prepared using lenti-shRNA [TL301578C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL301578D] virus into HEK293 cells. [TL301578D] virus was prepared using lenti-shRNA [TL301578D] and [TR30037] packaging kit.