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Product datasheet for TL309344

Glucose Transporter GLUT1 (SLC2A1) Human shRNA Plasmid Kit (Locus ID 6513)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Glucose Transporter GLUT1 (SLC2A1) Human shRNA Plasmid Kit (Locus ID 6513)
Locus ID:	6513
Synonyms:	CSE; DYT9; DYT17; DYT18; EIG12; GLUT; GLUT-1; GLUT1; GLUT1DS; HTLVR; PED; SDCHCN
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SLC2A1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 6513). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_006516, NM_006516.1, NM_006516.2, BC118590, BC121804, NM_006516.4
UniProt ID:	P11166
Summary:	This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Apr 2013]
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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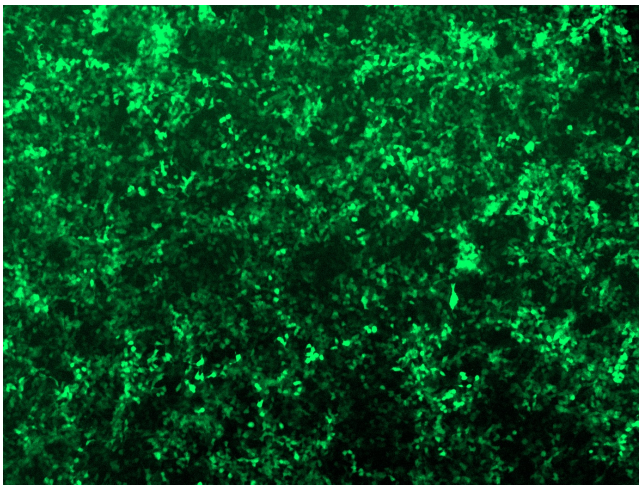
Performance Guaranteed:

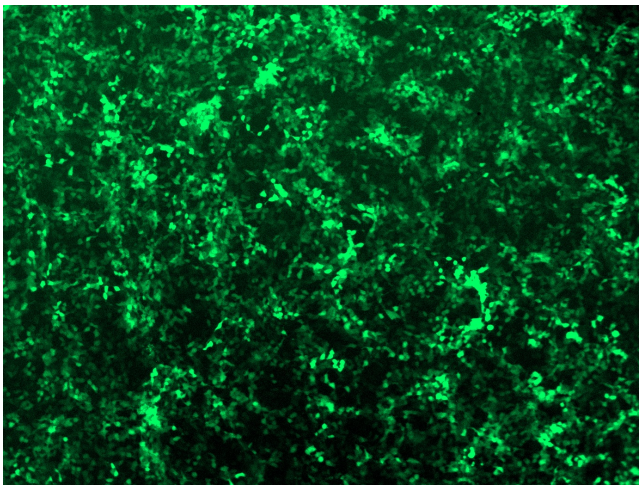
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved.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

Product images:



GFP signal was observed under microscope at 48 hours after transduction of TL309344A virus into HEK293 cells. TL309344A virus was prepared using lenti-shRNA TL309344A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL309344B virus into HEK293 cells. TL309344B virus was prepared using lenti-shRNA TL309344B and [TR30037] packaging kit.