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Product datasheet for TL309453V

SHMT2 Human shRNA Lentiviral Particle (Locus ID 6472)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	SHMT2 Human shRNA Lentiviral Particle (Locus ID 6472)
Locus ID:	6472
Synonyms:	GLYA; HEL-S-51e; NEDCASB; SHMT
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	SHMT2 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	BC032584, NM_001166356, NM_001166357, NM_001166358, NM_001166359, NM_005412, NR_029415, NR_029416, NR_029417, NR_048562, NM_005412.1, NM_005412.2, NM_005412.3, NM_005412.4, NM_005412.5, NM_001166359.1, NM_001166357.1, NM_001166358.1, NM_001166356.1, BC032584.1, BC011911, BC011911.2, BC008066, BC008711, BC013677, BC025355, BC044211, BC091501, NM_001166356.2, NM_005412.6
UniProt ID:	P34897
Summary:	This gene encodes the mitochondrial form of a pyridoxal phosphate-dependent enzyme that catalyzes the reversible reaction of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. The encoded product is primarily responsible for glycine synthesis. The activity of the encoded protein has been suggested to be the primary source of intracellular glycine. The gene which encodes the cytosolic form of this enzyme is located on chromosome 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]
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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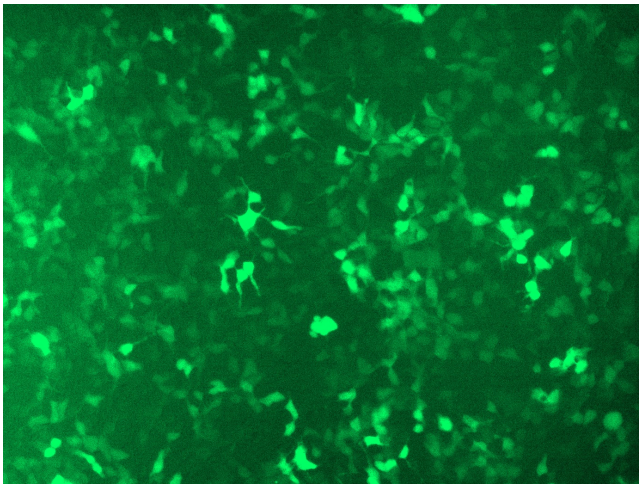
Performance Guaranteed:

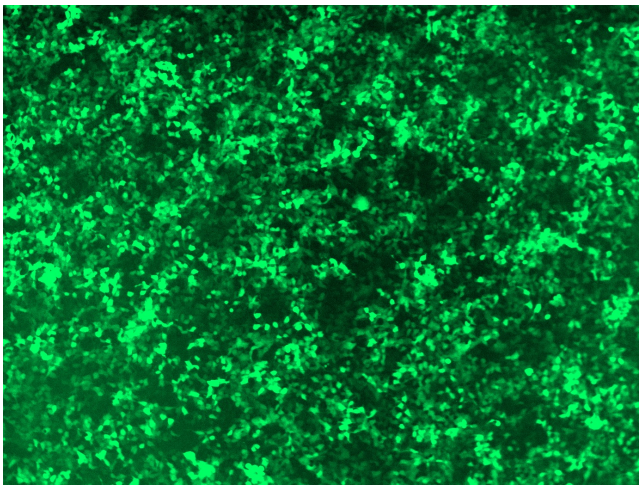
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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 TL309453A virus into HEK293 cells. TL309453A virus was prepared using lenti-shRNA TL309453A and [TR30037] packaging kit.



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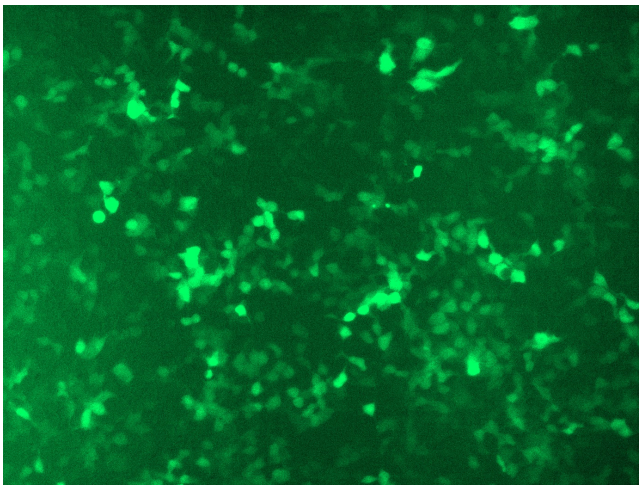
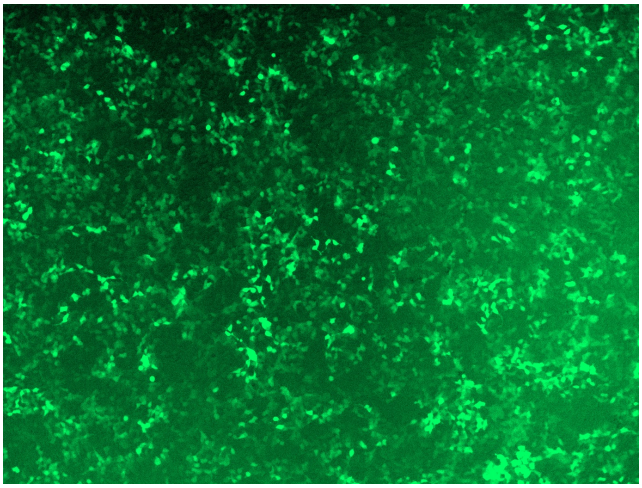
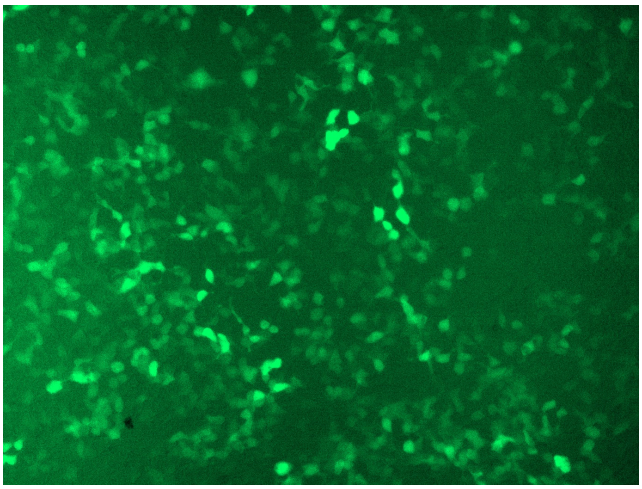


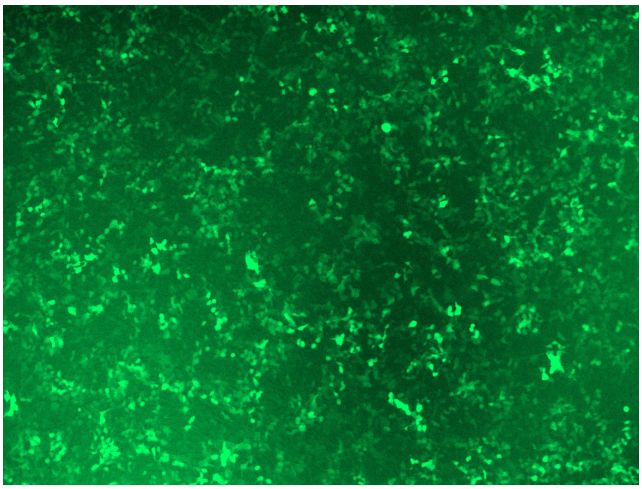
GFP signal was observed under microscope at 48 hours after transduction of TL309453B virus into HEK293 cells. TL309453B virus was prepared using lenti-shRNA TL309453B and [TR30037] packaging kit.



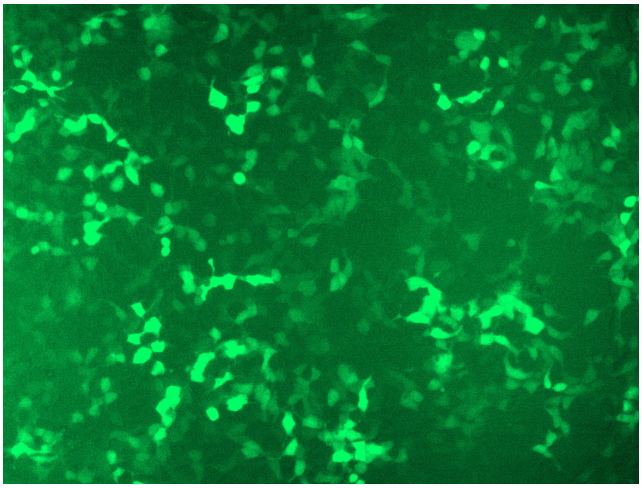
GFP signal was observed under microscope at 48 hours after transduction of TL309453B virus into HEK293 cells. TL309453B virus was prepared using lenti-shRNA TL309453B and [TR30037] packaging kit.



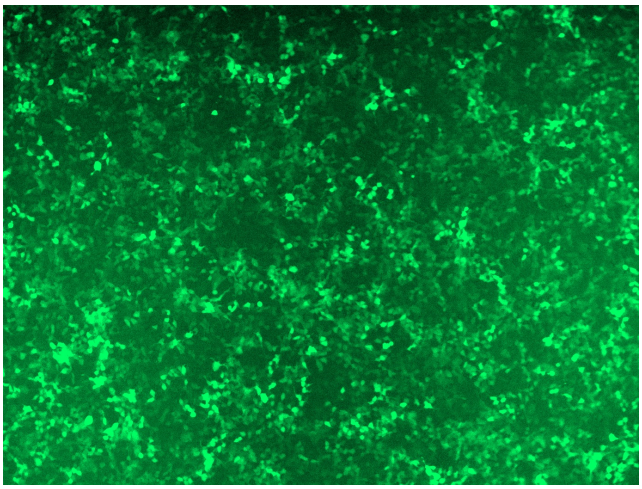
GFP signal was observed under microscope at 48 hours after transduction of [TL309453C] virus into HEK293 cells. [TL309453C] virus was prepared using lenti-shRNA [TL309453C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309453C] virus into HEK293 cells. [TL309453C] virus was prepared using lenti-shRNA [TL309453C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309453D] virus into HEK293 cells. [TL309453D] virus was prepared using lenti-shRNA [TL309453D] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309453D] virus into HEK293 cells. [TL309453D] virus was prepared using lenti-shRNA [TL309453D] and [TR30037] packaging kit.