OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TL314638

ASAH1 Human shRNA Plasmid Kit (Locus ID 427)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ASAH1 Human shRNA Plasmid Kit (Locus ID 427)
Locus ID:	427
Synonyms:	AC; ACDase; ASAH; PHP; PHP32; SMAPME
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ASAH1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 427). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001127505, NM_004315, NM_177924, NM_177924.1, NM_177924.2, NM_177924.3, NM_177924.4, NM_004315.1, NM_004315.2, NM_004315.3, NM_004315.4, NM_004315.5, NM_001127505.1, NM_001127505.2, BC016481, BC016828, BC035453, NM_001363743, NM_001127505.3
UniProt ID:	Q13510
Summary:	This gene encodes a member of the acid ceramidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. Processing of this preproprotein generates alpha and beta subunits that heterodimerize to form the mature lysosomal enzyme, which catalyzes the degradation of ceramide into sphingosine and free fatty acid. This enzyme is overexpressed in multiple human cancers and may play a role in cancer progression. Mutations in this gene are associated with the lysosomal storage disorder, Farber lipogranulomatosis, and a neuromuscular disorder, spinal muscular atrophy with progressive myoclonic epilepsy. [provided by RefSeq, Oct 2015]
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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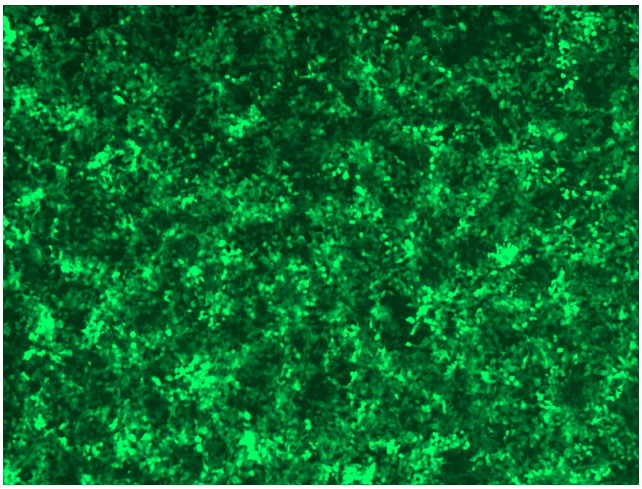
Performance Guaranteed:

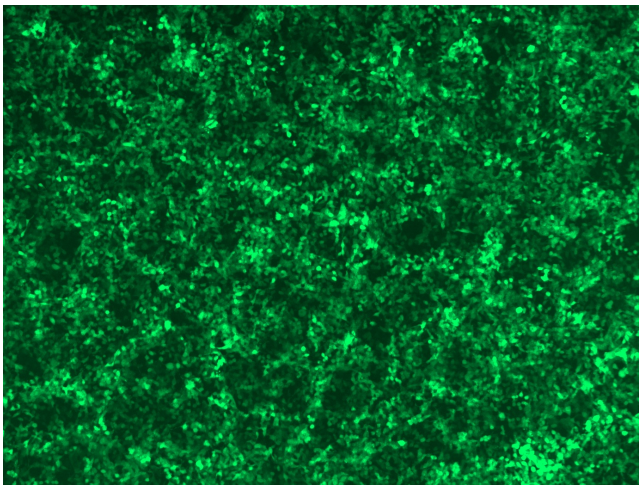
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved.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

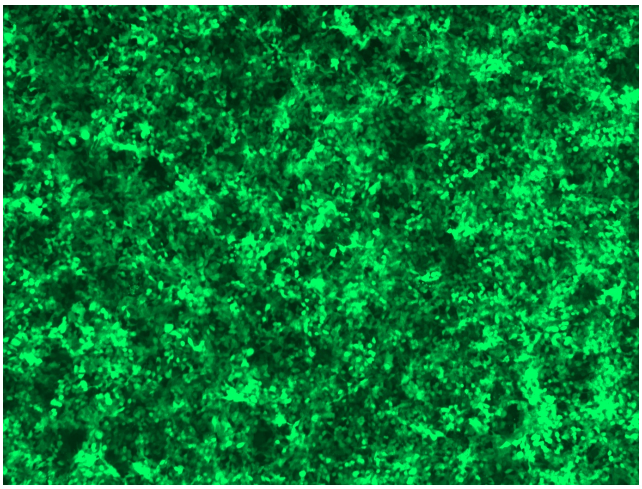
Product images:



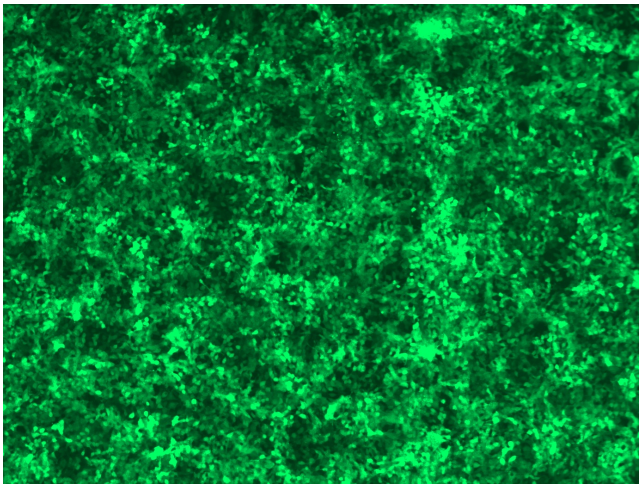
GFP signal was observed under microscope at 48 hours after transduction of TL314638A virus into HEK293 cells. TL314638A virus was prepared using lenti-shRNA TL314638A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL314638B virus into HEK293 cells. TL314638B virus was prepared using lenti-shRNA TL314638B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314638C] virus into HEK293 cells. [TL314638C] virus was prepared using lenti-shRNA [TL314638C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314638D] virus into HEK293 cells. [TL314638D] virus was prepared using lenti-shRNA [TL314638D] and [TR30037] packaging kit.