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 TL309282

xCT (SLC7A11) Human shRNA Plasmid Kit (Locus ID 23657)

Product data:

Product Type:	shRNA Plasmids
Product Name:	xCT (SLC7A11) Human shRNA Plasmid Kit (Locus ID 23657)
Locus ID:	23657
Synonyms:	CCBR1; xCT
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SLC7A11 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 23657). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_014331, NM_014331.1, NM_014331.2, NM_014331.3, BC012087, BC041925
UniProt ID:	Q9UPY5
Summary:	This gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. In this system, designated Xc(-), the anionic form of cysteine is transported in exchange for glutamate. This protein has been identified as the predominant mediator of Kaposi sarcoma-associated herpesvirus fusion and entry permissiveness into cells. Also, increased expression of this gene in primary gliomas (compared to normal brain tissue) was associated with increased glutamate secretion via the XCT channels, resulting in neuronal cell death. [provided by RefSeq, Sep 2011]
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.

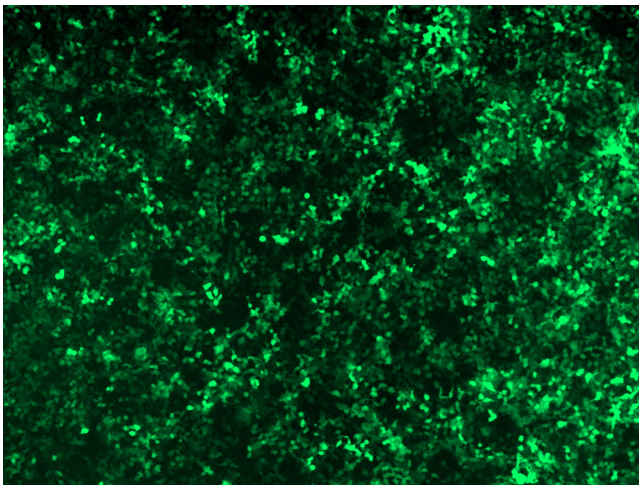
View online »

Performance Guaranteed:

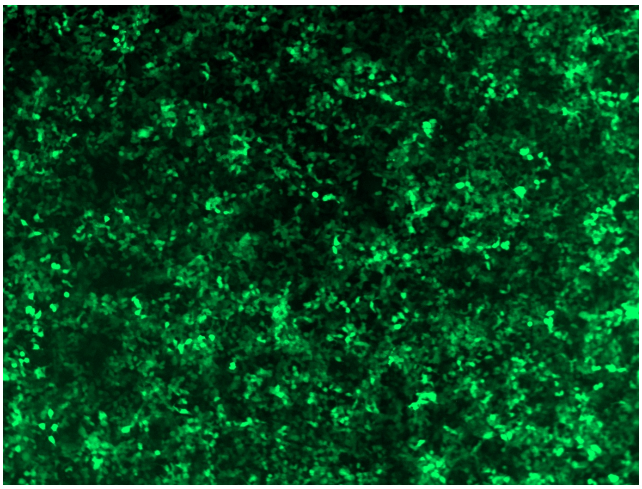
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved.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

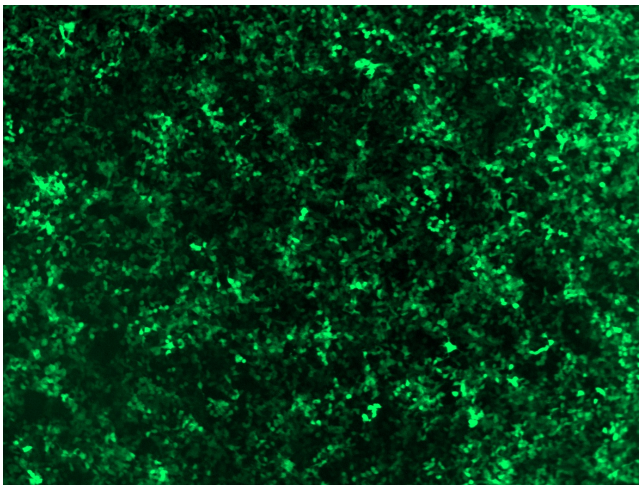
Product images:



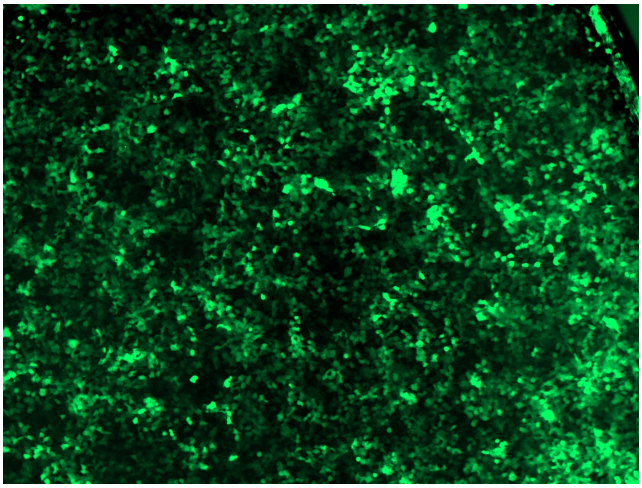
GFP signal was observed under microscope at 48 hours after transduction of TL309282A virus into HEK293 cells. TL309282A virus was prepared using lenti-shRNA TL309282A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL309282B virus into HEK293 cells. TL309282B virus was prepared using lenti-shRNA TL309282B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309282C] virus into HEK293 cells. [TL309282C] virus was prepared using lenti-shRNA [TL309282C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL309282D] virus into HEK293 cells. [TL309282D] virus was prepared using lenti-shRNA [TL309282D] and [TR30037] packaging kit.