

## Product datasheet for **RC207016L4V**

### SLC7A6 (NM\_001076785) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SLC7A6 (NM_001076785) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SLC7A6
Synonyms:	LAT-2; LAT3; y+LAT-2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001076785
ORF Size:	1545 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207016).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001076785.1</a>
RefSeq Size:	6368 bp
RefSeq ORF:	1548 bp
Locus ID:	9057
UniProt ID:	<a href="#">Q92536</a>
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	56.8 kDa



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**Gene Summary:**

Involved in the sodium-independent uptake of dibasic amino acids and sodium-dependent uptake of some neutral amino acids. Requires coexpression with SLC3A2/4F2hc to mediate the uptake of arginine, leucine and glutamine. Also acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. Plays a role in nitric oxide synthesis in human umbilical vein endothelial cells (HUVECs) via transport of L-arginine. Involved in the transport of L-arginine in monocytes. Reduces uptake of ornithine in retinal pigment epithelial (RPE) cells.[UniProtKB/Swiss-Prot Function]