

## Product datasheet for **RC208586L2V**

### LAT2 (SLC7A8) (NM\_012244) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | LAT2 (SLC7A8) (NM_012244) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | LAT2   |
| Synonyms:                 | LAT2; LPI-PC1  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_012244  |
| ORF Size:                 | 1605 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC208586).   |
| 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_012244.2</a>  |
| RefSeq Size:              | 4237 bp  |
| RefSeq ORF:               | 1608 bp  |
| Locus ID:                 | 23428  |
| UniProt ID:               | <a href="#">Q9UHI5</a>   |
| Cytogenetics:             | 14q11.2  |
| Domains:                  | aa_permeases   |
| Protein Families:         | Druggable Genome, Transmembrane  |



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MW: 58.2 kDa

**Gene Summary:** Sodium-independent, high-affinity transport of small and large neutral amino acids such as alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for L-phenylalanine than LAT1 but lower affinity for glutamine and serine. L-alanine is transported at physiological concentrations. Plays a role in basolateral (re)absorption of neutral amino acids. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Plays an essential role in the reabsorption of neutral amino acids from the epithelial cells to the bloodstream in the kidney.[UniProtKB/Swiss-Prot Function]