

Product datasheet for **MR224572L4V**

Slc5a12 (NM_001003915) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Symbol:	Slc5a12
Synonyms:	AI315119; D630015G19; SMCT2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001003915
ORF Size:	1869 bp

ORF Nucleotide Sequence: The ORF insert of this clone is exactly the same as(MR224572).

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. [More info](#)

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:	NM_001003915.2 , NP_001003915.1
RefSeq Size:	5104 bp
RefSeq ORF:	1872 bp
Locus ID:	241612
UniProt ID:	Q49B93
Cytogenetics:	2 E3



Gene Summary:

Acts as an electroneutral and low-affinity sodium (Na^{+})-dependent sodium-coupled solute transporter. Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate. May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina. Mediates electroneutral uptake of lactate, with a stoichiometry of 2 Na^{+} for each lactate.[UniProtKB/Swiss-Prot Function]