

Product datasheet for **MR224745L4V**

Slc38a1 (NM_134086) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Slc38a1 (NM_134086) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Slc38a1
Synonyms:	AA408026; AA409865; AL022800; AU015942; NAT2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_134086
ORF Size:	1455 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224745).
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_134086.4 , NP_598847.2
RefSeq Size:	7752 bp
RefSeq ORF:	1458 bp
Locus ID:	105727
UniProt ID:	Q8K2P7
Cytogenetics:	15 F1



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Gene Summary:

Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of glutamine and sodium ions with a stoichiometry of 1:1. May also transport small zwitterionic and aliphatic amino acids with a lower affinity. May supply glutamatergic and GABAergic neurons with glutamine which is required for the synthesis of the neurotransmitters glutamate and GABA.[UniProtKB/Swiss-Prot Function]