

## Product datasheet for **RC227957L4V**

### **VMAT1 (SLC18A1) (NM\_001142325) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	VMAT1 (SLC18A1) (NM_001142325) Human Tagged ORF Clone Lentiviral Particle
Symbol:	VMAT1
Synonyms:	CGAT; VAT1; VMAT1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001142325
ORF Size:	1416 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC227957).
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_001142325.1</a> , <a href="#">NP_001135797.1</a>
RefSeq ORF:	1419 bp
Locus ID:	6570
UniProt ID:	<a href="#">P54219</a>
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Protein Pathways:	Parkinson's disease
MW:	49.8 kDa



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**Gene Summary:**

The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine (Peter et al., 1993 [PubMed 7905859]). See also SLC18A2 (MIM 193001).[supplied by OMIM, Mar 2008]