

## Product datasheet for **SC325972**

### VMAT1 (SLC18A1) (NM\_001142325) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VMAT1 (SLC18A1) (NM_001142325) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC18A1
Synonyms:	CGAT; VAT1; VMAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC325972 representing NM\_001142325.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

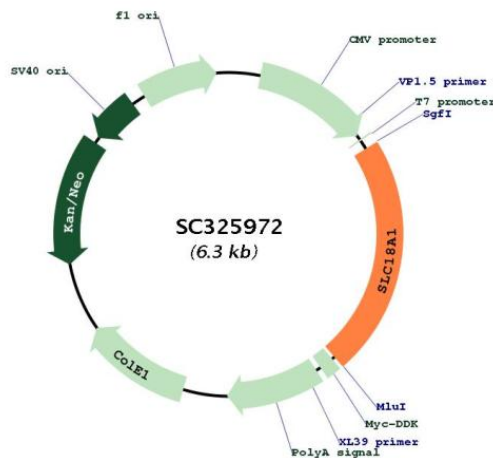
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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**Restriction Sites:**

SgfI-MluI

**Plasmid Map:**



**ACCN:** NM\_001142325

**Insert Size:** 1419 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142325.1</a>
<b>RefSeq Size:</b>	2840 bp
<b>RefSeq ORF:</b>	1419 bp
<b>Locus ID:</b>	6570
<b>UniProt ID:</b>	<a href="#">P54219</a>
<b>Cytogenetics:</b>	8p21.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Parkinson's disease
<b>MW:</b>	50 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4), also known as VMAT1delta15, lacks an alternate exon in the 3' coding region resulting in a frameshift, compared to variant 1. The resulting isoform (c) has a shorter and distinct C-terminus, compared to isoform a. CCDS Note: This variant represents the VMAT1delta15 variant described in PMID:16326835. There are no publicly available transcripts representing it, but it was cloned and characterized in the above publication.</p>