

Product datasheet for **SC325132**

VMAT1 (SLC18A1) (NM_001142324) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VMAT1 (SLC18A1) (NM_001142324) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC18A1
Synonyms:	CGAT; VAT1; VMAT1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001142324, the custom clone sequence may differ by one or more nucleotides ATGCTCCGGACCACTTCTGGATGCTCCCCAGCGTTGCTGAAGGAGGGGAGAGCGTCCCGG CAGCTGGTGTGGTGGTGGTATTGCTCGCTTTGCTCCTGGACAACATGCTGTTACTGTG GTGGTGCCAAATTGCCCCACCTTCTATATGACATGGAGTTCAAAGAAGTCAACTCTTCT CTGCACCTCGGCCATGCCGGAAGTTCCCCACATGCCCTCGCCTCTCTGCCTTTTCCACC ATCTTCTCCTTCTCAACAACAACACCGTGGCTGTTGAAGAAAGCGTACCTAGTGAATA GCATGGATGAATGACTGCCAGCACCATCCCACCTCCAGCCACTGAAGCCATCTCAGCT CATAAAAAACAACCTGTTGCAAGGCACAGTTTCTTGGAGGAAGAGATTACCCGGGTGGG GTTCTGTTTGTCTCAAAGGCTGTGATGCAACTTCTGGTCAACCCATTCTGGGGCCCTCTC ACCAACAGGATTGGATATCATATCCCCATGTTTGTGGCTTTGTTATCATGTTTCTCTCC ACAGTTATGTTTGTCTTTTCTGGGACCTATACTCTACTCTTTGTGGCCCGAACCTTCAA GGCATTGGATCTTCATTTTCATCTGTTGCAGGTCTTGAATGCTGGCCAGTGTCTACACT GATGACCATGAGAGAGGACGAGCCATGGGAACCTGCTCTGGGGGGCCTGGCCTTGGGGTTG CTGGTGGGAGCTCCCTTTGGAAGTGAATGTACGAGTTTGTGGGAAGTCTGCACCCTTC CTCATCTGGCCTTCTGGCACTACTGGATGGAGCACTCCAGCTTGCATCCTACAGCCT TCCAAAGTCTCTCCTGAGAGTGCCAAGGGGACTCCCCTTTTATGCTTCTCAAAGACCCT TACATCCTGGTGGCTGCAGGTCTAGCTTTCTTGCCTGCCAGTGTGCTCCTACCTCATTGGC ACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTGGTGGCTGTGTTCCCTAATCGGG ATGCTGGTAGTAGGTACCAGCTTGTCTGTGTTCTCTGGCTCACAATATTTTTGGTCTC ATTGGCCCAATGCAGGGCTTGGCCTTGGCATAGGCATGGTGGATTCTTCTATGATGCC ATCATGGGGCACCTGGTGGATCTACGCCACACCTCGGTGTATGGGAGTGTCTACGCCATC GCTGATGTGGCTTTTTCATGGCTTTGCTATAGGTCCATCCACCGGTGGTGCATTGTA AAGGCCATCGGTTTTCCCTGGCTCATGGTCACTACTGGGGTCACTCAACATCGTCTATGCT CCACTCTGCTACTACCTGCGGAGCCCCCGGCAAAGGAAGAGAAGCTTGCTATTCTGAGT CAGGACTGCCCATGGAGACCCGGATGTATGCAACCCAGAAGCCACGAAGGAATTCCT CTGGGGGAGGACAGTGATGAGGACCTGACCATGAGGAG
Restriction Sites:	Please inquire
ACCN:	NM_001142324



[View online »](#)

OTI Disclaimer:	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).
OTI Annotation:	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.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001142324.1</u> , <u>NP_001135796.1</u>
RefSeq Size:	2878 bp
RefSeq ORF:	1482 bp
Locus ID:	6570
UniProt ID:	<u>P54219</u>
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Protein Pathways:	Parkinson's disease
Gene Summary:	<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 (3) lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (b) has the same N- and C-termini but lacks an internal segment, compared to isoform a.</p>