

Product datasheet for **SC122643**

VMAT1 (SLC18A1) (NM_003053) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VMAT1 (SLC18A1) (NM_003053) Human Untagged Clone
Tag:	Tag Free
Symbol:	VMAT1
Synonyms:	CGAT; VAT1; VMAT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003053 edited
 AGATCCACAAGTTTGTACAAAAAGCAGGCTTGTAAAACGACGGCCAGTAACTATAACGG
 TCCTAAGGTAGCGAGGCTGGGTGGCGAATTCGGCACGAGGCTGCTGTCTTGCTAACAGC
 TGCCAATACCTCACTGAGTGCCTCACACCAACATGGGCTCCAAGTGAATTCCTTCGTCT
 GGGCAGACTCCCTCCCCTCTCCATAAAGGCTGCAGGAGACCTGTAGCTGCACAGGACC
 TTCCCTAAGAGCCCGCAGGGGAAGACTGCCCCAGTCCGGCCATCACCATGCTCCGGACCA
 TTCTGGATGCTCCCAGCGTTGCTGAAGGAGGGGAGAGCGTCCGGCAGCTGGTGGTGG
 TGGTGGTATTCGTCGCTTTGCTCCTGGACAACATGCTGTTTACTGTGGTGGTGCCAATTG
 TGCCACCTTCTATATGACATGGAGTTCAAAGAAGTCAACTCTTCTCTGCACCTCGGCC
 ATGCCGGAAGTTCCACATGCCCTCGCCTCTCCTGCCTTTTCCACCATTTCTCCTTTCT
 TCAACAACAACACCGTGGCTGTTGAAGAAAGCGTACCTAGTGAATAGCATGGATGAATG
 ACACTGCCAGCACCATCCCACCTCCAGCCACTGAAGCCATCTCAGCTCATAAAAAACAACT
 GCTTGAAGGCACAGTTTCTTGGAGGAAGAGATTACCCGGTTCGGGGTCTGTTTGGCTT
 CAAAGGCTGTGATGCAACTTCTGGTCAACCCATTCGTGGGCCCTCTCACCACAGGATTG
 GATATCATATCCCATGTTTGGTGGCTTTGTTATCATGTTTCTCTCCACAGTTATGTTTG
 CTTTTTCTGGGACCTATACTCTACTCTTTGTGGCCGAACCCCTCAAGGCATTGGATCTT
 CATTTTCATCTGTTGCAGGTCTTGAATGCTGGCCAGTGTCTACACTGATGACCATGAGA
 GAGGACGAGCCATGGAACTGCTCTGGGGGCCTGGCCTTGGGGTTGCTGGTGGGAGCTC
 CCTTTGGAAGTGAATGTACGAGTTTGTGGGAAGTCTGCACCCTTCTCATCTCTGGCCT
 TCCTGGCACTACTGGATGGAGCACTCCAGCTTTCATCTACAGCCTTCCAAAGTCTCTC
 CTGAGAGTGCCAAAGGGACTCCCCTCTTATGCTTCTCAAAGACCCTTACATCTGGTGG
 CTGCAGGGTCCATCTGCTTGGCAACATGGGGTGGCCATCCTGGAGCCACACTGCCCA
 TCTGGATGATGCAGACCATGTGCTCCCCAAGTGGCAGCTGGGTCTAGCTTTCTTGGCTC
 CCAGTGTCTCCTACCTCATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTC
 GGTGGCTGTGTTCCCTAATCGGGATGCTGGTAGTAGGTACCAGCTTGTCTGTGTTCCCTC
 TGGCTCACAATATTTTTGGTCTCATTGGCCCCAATGCAGGGCTTGGCCTTGCCATAGGCA
 TGGTGGATTCTTCTATGATGCCATCATGGGGCACCTGGTGGATCAGCCACACCTCGG
 TGTATGGGAGTGTCTACGCCATCGCTGATGTGGCTTTTTCATGGGCTTTGCTATAGGTC
 CATCCACCGTGGTGCCATTGTAAGGCCATCGGTTTTCCCTGGCTCATGGTCACTACTG
 GGGTCATCAACATCGTCTATGCTCCACTCTGCTACTACCTGCGGAGCCCCCGGCAAAGG
 AAGAGAAGCTTGCTATTCTGAGTCAGGACTGCCCATGGAGACCCGGATGTATGCAACCC
 AGAAGCCACGAAGGAATTTCTCTGGGGGAGGACAGTGTAGGAGCCTGACCATGAGG
 AGTAGCAGCAGAAGGTGCTCCTTGAATTCATGATGCCTCAGTGACCACCTTTTCCCTGG
 GACCAGATCACCATGGCTGAGCCACGGCTCAGTGGGCTTACATACCTCTGCCTGGGAA
 TCTTCTTCTCCCTCCCATGGACACTGTCCCTGATACTCTTCTCACCTGTGTAACCTG
 TAGCTCTTCTCTATGCCTTGGTGCCGAGTGGCCATCTTTTATGGGAAGACAGAGTGA
 TGCACCTTCCCGCTGCTGTGAGGTTGATTAACCTGAGCTGTGACGGGTTCTGCAAGGGG
 TGACTCATTGCATAGAGGTGGTAGTGAGTAATGTGCCCTGAAACCAGTGGGGTACTGA
 CAAGCCTTTAATCTGTTGCCTGATTTTCTCTGGCATAGTCCCAACAGATCGGAAGAGT
 GTTACCCTTTTTCTCAACGTGTTCTTTCCCGGTTTTCCAGCCGAGTTGAGAAAATG
 TTCTCAGCATTGTCTGTGCCAAATGCCAGCTTGAAGAGTTTTGTTTTGTTTTTTTTTCC
 ATTTATTTTTTTTTTTAATAAAGTGAGTGATTTTTCTGTGGCTAAATCTAGAGCTGCTA
 AAAGGGCTTTACCCTCAGTGAAGAGTGTCTTCTATTTTCATTATCTTTCAGAAACAGGAG
 CCCATTTCTCTTCTGCTGGAGTTATTGACATTCTCCTGACCTCCCCTGTGTGTTCCCTACC
 TTTTCTGAACCTTTAGACTCTTAGAAAATAAAGTAGAAGAAAGACAGAAAAATAACTG
 ATTAGACCCAAGATTTTCATGGGAAGAAGTAAAAGAAACTGCCTTGAATCCCTCCTGAT
 TGTAGATTTCTAATAGGAGGGTGAATGTGACATTGTTTCATACTTGTAAATAATACA
 TTATTGCCTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003053

Insert Size:	2797 bp
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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003053.1.
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_003053.1</u> , <u>NP_003044.1</u>
RefSeq Size:	2749 bp
RefSeq ORF:	1578 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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein (isoform a).</p>