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Product datasheet for SC326027

VMAT1 (SLC18A1) (NM_001135691) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: VMAT1 (SLC18A1) (NM_001135691) Human Untagged Clone

Tag: Tag Free

Symbol: SLC18A1

Synonyms: CGAT; VAT1; VMAT1

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001135691, the custom clone sequence may differ by one or more nucleotides
ATGCTCCGGACCATTCTGGATGCTCCCCAGCGGTTGCTGAAGGAGGGGAGAGCGTCCCGG
CAGCTGGTGCTGGTGGTGGTATTCGTCGCTTTGCTCCTGGACAACATGCTGTTTACTGTG
GTGGTGCCAATTGTGCCCACCTTCCTATATGACATGGAGTTCAAAGAAGTCAACTCTTCT
CTGCACCTCGGCCATGCCGGAAGTTCCCCACATGCCCTCGCCTCTCCTGCCTTTTCCACC
ATCTTCTCCTTCTTCAACAACAACACCGTGGCTGTTGAAGAAAGCGTACCTAGTGGAATA
GCATGGATGAATGACACTGCCAGCACCATCCCACCTCCAGCCACTGAAGCCATCTCAGCT
CATAAAAACAACTGCTTGCAAGGCACAGGTTTCTTGGAGGAAGAGATTACCCGGGTCGGG
GTTCTGTTTGCTTCAAAGGCTGTGATGCAACTTCTGGTCAACCCATTCGTGGGCCCTCTC
ACCAACAGGATTGGATATCATATCCCCATGTTTGCTGGCTTTGTTATCATGTTTCTCTCC
ACAGTTATGTTTGCTTTTTCTGGGACCTATACTCTACTCTTTGTGGCCCGAACCCTTCAA
GGCATTGGATCTTCATTTTCATCTGTTGCAGGTCTTGGAATGCTGGCCAGTGTCTACACT
GATGACCATGAGAGAGGACGAGCCATGGGAACTGCTCTGGGGGGCCTGGCCTTGGGGTTG
CTGGTGGGAGCTCCCTTTGGAAGTGTAATGTACGAGTTTGTTGGGAAGTCTGCACCCTTC
CTCATCCTGGCCTTCCTGGCACTACTGGATGGAGCACTCCAGCTTTGCATCCTACAGCCT
TCCAAAGTCTCTCCTGAGAGTGCCAAGGGGACTCCCCTCTTTATGCTTCTCAAAGACCCT
TACATCCTGGTGGCTGCAGGGTCCATCTGCTTTGCCAACATGGGGGTGGCCATCCTGGAG
CCCACACTGCCCATCTGGATGATGCAGACCATGTGCTCCCCCAAGTGGCAGCTGGGTCTA
GCTTTCTTGCCTGCCAGTGTGTCCTACCTCATTGGCACCAACCTCTTTGGTGTGTTGGCC
AACAAGATGGGTCGGTGGCTGTGTTCCCTAATCGGGATGCTGGTAGTAGGTACCAGCTTG
CTCTGTGTTCCTCTGGCTCACAATATTTTTGGTCTCATTGGCCCCAATGCAGGGCTTGGC
CTTGCCATAGGCATGGTGGATTCTTCTATGATGCCCATCATGGGGCACCTGGTGGATCTA
CGCCACACCTCGGTGTATGGGAGTGTCTACGCCATCGCTGATGTGGCTTTTTGCATGGGC
TTTGCTATAGGTCCATCCACCGGTGGTGCCATTGTAAAGGCCATCGGTTTTCCCTGGCTC
ATGGTCATCACTGGGGTCATCAACATCGTCTATGCTCCACTCTGCTACTACCTGCGGAGC
CCCCCGGCAAAGGAAGAGAAGCTTGCTATTCTGAGTCAGGACTGCCCCATGGAGACCCGG
ATGTATGCAACCCAGAAGCCCACGAAGGAATTTCCTCTGGGGGAGGACAGTGATGAGGAG
CCTGACCATGAGGAG

Restriction Sites: Please inquire

View online »

ACCN:	NM_001135691
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:	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:	NM_001135691.2, NP_001129163.1
RefSeq Size:	2974 bp
RefSeq ORF:	1578 bp
Locus ID:	6570
UniProt ID:	P54219
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Protein Pathways:	Parkinson's disease
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] Transcript Variant: This variant (1) represents the longest transcript, and encodes the longest protein (isoform a). Variants 1 and 2 both encode the same protein.