

Product datasheet for **RG227957**

VMAT1 (SLC18A1) (NM_001142325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VMAT1 (SLC18A1) (NM_001142325) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC18A1
Synonyms:	CGAT; VAT1; VMAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227957 representing NM_001142325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCGGACCATTCTGGATGCTCCCCAGCGTTGCTGAAGGAGGGGAGAGCGTCCCGCAGCTGGTGC
 TGGTGGTGGTATTCGTCGCTTTGCTCCTGGACAACATGCTGTTTACTGTGGTGGTCCAATTGTGCCAC
 CTTCTATATGACATGGAGTTCAAAGAAGTCAACTCTTCTCTGCACCTCGGCCATGCCGGAAGTTCCTCA
 CATGCCCTCGCCTCTCCTGCCTTTCCACCATCTTCTCCTTCTCAACAACAACACCGTGGCTGTTGAAG
 AAAGCGTACCTAGTGGAAATAGCATGGATGAATGACACTGCCAGCACCATCCACCTCCAGCCACTGAAGC
 CATCTCAGCTCATAAAAACAACCTGCTTGAAGGCACAGTTTCTTGGAGGAAGAGATTACCCGGTCCGG
 GTTCTGTTGCTCAAAGGCTGTGATGCAACTTCTGGTCAACCCATTTCGTTGGCCCTCTCACCAACAGGA
 TTGGATATCATATCCCCATGTTTGTGGCTTTGTTATCATGTTTCTCCACAGTTATGTTTGTCTTTTC
 TGGGACCTATACTCTACTCTTTGTGGCCGAACCTTCAAGGCATTGGATCTTCATTTTCATCTGTTGCA
 GGTCTTGGAAATGCTGGCCAGTGTCTACACTGATGACCATGAGAGAGGACGAGCCATGGGAACTGCTCTGG
 GGGCCTGGCCTTGGGGTTGCTGGTGGGAGCTCCCTTTGGAAGTGAATGTACGAGTTTGTGGGAAGTC
 TGCACCCTTCTCATCTGGCCTTCTGGCACTACTGGATGGAGCACTCCAGCTTTGCATCTACAGCCT
 TCCAAAGTCTCTCCTGAGAGTGCCAAGGGGACTCCCTCTTTATGCTTCTCAAAGACCCTTACATCTGG
 TGGCTGCAGGGTCCATCTGCTTTGCCAACATGGGGTGGCCATCTGGAGCCACACTGCCCATCTGGAT
 GATGCAGACCATGTGCTCCCCAAGTGGCAGCTGGGTCTAGCTTCTTGCCTGCCAGTGTGCTCTACCTC
 ATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGTCCGTTGGCTGTGTTCCCTAATCGGGATGC
 TGGTAGTAGGTACCACTTGTCTGTGTTCTCTGGCTACAATATTTTTGGTCTATTGGCCCCAATGC
 AGGGCTTGGCCTTGCCATAGGCATGGTGGATTCTTCTATGATGCCCATCATGGGGCACCTGGTGGATCTA
 CGCCACACCTCGGTGTATGGGAGTGTCTACGCCATCGCTGATGTGGCTTTTTGCATGGGCTTTGCTATAG
 GCTATTCTGAGTCAGGACTGCCCATGGAGACCCGGATGTATGCAACCCAGAAGCCACGAAGGAATTTTC
 CTCTGGGGGAGGACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227957 representing NM_001142325
 Red=Cloning site Green=Tags(s)

MLRTILDAPQRLLEGRASRQLVLVVVFVALLLDNMLFTVVVPIVPTFLYDMEFKEVNSSLHLGHAGSSP
 HALASPAFSTIFSFNNNTVAVEESVPSGIAWMNDTASTIPPPATEAISAHKNNCLQGTGFLEEEITRVG
 VLFASKAVMQLLVNPFGVPLTNRIGYHIPMFAGFVIMFLSTVMFAFSGTYTLLFVARTLQIGSSFSVA
 GLGMLASVYTDHERGRAMGTALGGLALGLLVGAPFGSVMYEFVKGSAFPLILAFLLDGLALQCILQP
 SKVSPESAKGTPLFMLLKDPYILVAAGSICFANMGVAILEPTLP IWMMQTMCSPKWQLGLAFLPASVSYL
 IGTNLFVLANKMRWLCSLIGMLVVGTSLLCVPLAHNIFGLIGPNAGLGLAIGMVDSSMMPIMGHLVDL
 RHTSVYGSVYAIADVAFCMGFAIGYSESGLPHGDPDVCNPEAHEGISSGGGQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_001142325.1 , NP_001135797.1
RefSeq Size:	2840 bp
RefSeq ORF:	1419 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]