

Product datasheet for SC116157

VAT1 (NM_006373) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAT1 (NM_006373) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAT1
Synonyms:	VATI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116157 sequence for NM_006373 edited (data generated by NextGen Sequencing)

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ATGTCCGACGAGAGAGAGGTAGCCGAGGCAGCGACCCGGGAAGACGCCTCTTCGCCGCCCT
CCGAAAACCGAGGCAGCGAGCGACCCCCAGCATCCCGCGCCCTCCGAAGGGCCGCCGCC
GCCGCCGCCCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACCGGCTTTGGAGGCTACGAC
AAGGTGAAGCTGCAGAGCCGGCCGCGAGCGCCCGGCCCTGGGCCCGCCAGCTGACG
CTGCGTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTAC
GACCGTCTCCCGCCTCTGCCTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCA
GTGGGCGAGGGAGTCAGCGACCCGAAGGCAGGAGACCGGGTGATGGTGTGAACCGGTCA
GGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCTGATTCTGAGGCC
ATGACCTTTGAGGAAGCTGCTGCCTTGCTCGTCAATTACATTACAGCCTACATGGTCCTC
TTTGACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGT
GTGGGTATGGCTGCCGTGCGAGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACG
GCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGAATGGGGTCACACATCCCATCGACTAT
CACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCTAAAGGAGTGGACATTGTC
ATGGACCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGC
AAAGTCGTCACCTATGGAATGGCCAACCTGCTGACGGGCCCAACCGAACCTGATGGCC
CTGGCCCGGACATGGTGAATCAGTTCAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAAC
CGGGCTGTGTGGCTTCCACCTGGGCTACCTGGATGGTGGAGTGGAGCTGGTCACTGGT
GTGGTGGCCCGCCTCCTGGCTCTGTACAACAGGGCCACATCAAGCCCCACATTGACTCA
GTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTG
GGCAAGGTCTCCTGGTCCAGGGCCAGAGAAGGAGAAGTAG

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Clone variation with respect to NM_006373.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006373 unedited CAGGAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGCCTC TCGTGGGAGTCCCAGCCATGTCCGACGAGAGAGAGGTAGCCGAGGCAGCGACCCGGGAA GACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGCGACCCCGCATCCCAGCGCC TCCGAAGGGGCCCGCCGCCCGCCGCTCGCCGCACTGCTGCGTGCCTAGTGTCCACC GGCTTTGGAGGCTACGACAAGGTGAAGTGCAGAGCCGGCCGCGAGCGCCCGGCCCT GGCCCGGCAGCTGACGCTGCGTCTGCCGGCTCGCGGCTCAACTTCGACAGACCTCATG GCTAGGCAGGGGCTGTAGACCGTCTCCGCTCTGCCTGTCACTCCGGGCATGGAGGGC GCGGGTGTGTGATCGCAGTGGGCGAGGAGTCAAGCACCGAAGGCAGGAGACCGGGT ATGGTGTGCAACCGGTCAGGGATGTGGCACGAAGAGGTGACTGTGCCCTCGGTCCACAC CTTCTGATTCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCTGTCTCAATTTACA TTACAGCTACATGGTCTCTTTGACTTCGGCAACCTACAGCCCTGCCACAGCTTTGG CACACATGGCTGCAGGGGTGTGGGTATGGCTGCCGTGCAACTGTCCGTACAGTGGAAA ATGTGACAGTGTTCGGAACCGCTTCGCCACCAAGCACCACGACCTGAAGAGAATGGG TACACCTCCATCCACTATCACACCACTGACTACGTGGATGAGAACAAAAAATTTCCCT AAAGGAGTGGACATT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006373 unedited CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGGTTTGGCTTTTTATT GACACAAACACACAAAGGCAGCTGTGGTAATGGGGTGGTGGGGTACACAAAAGCAGAAAT CGCACTTACACATTTAGGCCTCATTTAAACAATGAGGAGGCTGAGCCTGTCCCTCCACC TCCATTGCAATGGTTGGGCAATAACCCTCCCTAATCCTAGCTCAGTGAGTAGAGGGAG TGACCTCCCTACCCAGGAAGTCCCATTGTTGGTGAATGGCCAGGTCCTGACCATCCC ACTCTGACTTCCCTGCTCCATCTCCCCACCCATGTAACAGAGTTTTGGGCTGAGTTTG ATAAGCTGCCTCTGCTTTGAGAAGGCAGTAGGGCTCCCTAACTGCAAGGGGAATGT GCTTGGATTTTTACTTTGGTCCCAGTACAAGAAACAGACAGCACTGCCTTTTCCAGAGCTCT GGCTAGTAAATGCCACACATATCTGCAAGGCTGAGGAAGCTTCCCGCCTTTCTCCTCAA CCACCATAGAGACGGGACATGGCACAGACCACGATGAGGGCACCTGTTTTTGGCCTGCCT CCCCAGGAGGCTTGGGGCTGCCCCACCAATGGCACATACACAGATTTTTTGGCAGTGTG TGGACTGGGGAGGAGAGAAAACCCAGCTCCACCAGAACAGGAAGGCACTGGGGAGTCCA GGGAAGAGAAGAGGTGGGAACAGGATCCTCCCTTCCCGCCGCCACACACAAGCACA AGTTTTCTTTGCTTAAGCCCTGAGAACAATCCACAAAACCCCTGGAAGCGGGGGGCC TTGTTTCTTCCANATTTGGGCCCTAGAGGAATACGTCCTGACTCCCCCCTGTGGAAT AAGCCACCCTGGCTATGAATGCCGAAAACCTCGGGATTGAAAAACCCACTGTCCCCTA ACAGTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_006373
Insert Size:	2740 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).
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_006373.2](#), [NP_006364.2](#)

RefSeq Size: 2738 bp

RefSeq ORF: 1182 bp

Locus ID: 10493

UniProt ID: [Q99536](#)

Cytogenetics: 17q21.31

Domains: ADH_zinc_N

Protein Families: Druggable Genome

Gene Summary: Synaptic vesicles are responsible for regulating the storage and release of neurotransmitters in the nerve terminal. The protein encoded by this gene is an abundant integral membrane protein of cholinergic synaptic vesicles and is thought to be involved in vesicular transport. It belongs to the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins. [provided by RefSeq, Jul 2008]