

## Product datasheet for **SC322371**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322371  
 GCCTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCAT  
 GTCCGACGAGAGAGAGGTAGCCGAGGCAGCGACCCGGGAAGACGCCTCTTCGCCGCTCC  
 GAAAACCGAGGCAGCGAGCGACCCCGCATCCCGCGCCTCCGAAGGGGCCCGCCCGC  
 CGCCGCTCGCCGCACTGCTGCGCTGCCTAGTGTCAACCGCTTTGGAGGCTACGACAA  
 GGTGAAGCTGCAGAGCCGGCCGCGAGCGCCCGCCCTGGGCCCGCCAGCTGACGCT  
 GCGTCTCGGGCCTGCGGGCTCAACTTCGACAGCTCATGGCTAGGCAGGGGCTGTACGA  
 CCGTCTCCCGCCTGCTGCTGCACTCCGGCATGGAGGGCGGGTGTGTGATCGCAGT  
 GGGCAGGGAGTCAAGCAGCGAAGGCAGGAGACCGGGTGTGGTGTGAACCGTCAAG  
 GATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCTGATTCTGAGCCAT  
 GACCTTTGAGGAAGTGTGCTGCTGCTCAATTACATTACAGCCTACATGGTCTCTT  
 TGACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGTGT  
 GGGTATGGCTGCCGTGCACTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGC  
 CTCGGCCAGCAAGCAGGCACTGAAGGAGAATGGGGTACACATCCCATCGACTATCA  
 CAGCACTGACTACGTGGATGAGATCAAGAAGATTTCCCCTAAAGGAGTGGACATTGTCAT  
 GGACCCTCTGGTGGGTGAGATACTGCCAAGGGTACAACCTCCTGAAACCCATGGGCAA  
 AGTCGTACCTATGGAATGGCAACCTGCTGACGGGCCCAAACGGAACCTGATGGCCCT  
 GGCCCGGACATGGTGAATCAGTTCAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCG  
 GGCTGTGTGGCTTCCACCTGGGTACCTGGATGGTGGAGTGGAGCTGGTCAAGTGGTGT  
 GGTGGCCCGCCTCCTGGCTCTGTACAACAGGGCCACATCAAGCCCCACATTGACTCAGT  
 CTGGCCCTCGAGAAGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGG  
 CAAGCTCTCCTGGTCCAGGGCCAGAGAAGGAGAAGTGGGCAAGTGGCTGTGAGACCC  
 TAGAGACCAGCAAGGGAGAAGTTGGGAAGTACGTTCTGTTGGCCACCAGACTTGCATT  
 TCAGCCTCTGTCAATAATGCTCTGCCCTCCCTCCCCGAAGTTCTGTGGTGTGACCGC  
 TCTCCCCTGCCCTCCCCGCTTCTGACCTCTGAAGAGGTTGGGAAGTACCATTGGAT  
 GTCTGGCCCTGCCAAGGCGACAGGGAGGGTCAAGGGAGGCCGGCTGCTTCTGCCCC  
 ACCCTTTCCCGGGCCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTG  
 TGTTCATGTGCTTTCACCTCTGCCTCATCTTCTCCCGTCCCTGCCCGCCACCTCCC  
 CAAAGAATTGAAACGTCAGCTCAGGATATGGGGCAATCTCTGTGAGTCCAGCATGTACC  
 TGTCTCTCCCTAGTGTCCCTCAGCCTGGGCTGACCAGTCCCGCCTCTGGGCTTGACCA  
 GTTCCCAATCTGCTCCTCTGTCCCAACTTCTTAAGCACAAATGGGCTTCTTCCATCTCC  
 AGGTTTTCTGCCATTCTTAACCAAGGCTGCCTTCTCAACAGGGCGGGAATCAGACCTAC  
 TCCCCTAGGTCACAACCTCTGGGAAGGATACAGAGCCCCACCTTCACTGAGTCTCTGG  
 ATTTGTTCTCAGTGCCTTAGCAACGAAAACCTGTGCTTGTGTGTGTGGCGGGGGAG  
 GGAGGATCCTGTTTCCACCTCCTTCTCCTCCCCTGACTCCCCAGTGCCTTCTTGTTC  
 TGGTGGAGCTGGGGTTTCTCCTCCCCAGTCCCAACAACCTGCCAAAAATCTGTGTATG  
 TGCCATTGGGTGGGCAGCCCCAAGCCTCCTGGGAGGCAGGGCAAAAACAGGTGCCCTC  
 ATCGTGGTCTGTGCCATGTCCCCTCTCTATGGTGGTTGAGGAGAAAGCGGGGAAGCTTC  
 CTCAGCCTTGAGATATGTGTGGCATTACTAGCCAGAGCTCTGAAAGGCAGTGTCTCT  
 GTTCTTGTACTGGGACCAAGTAAAAATCCAAGCACATTCCCCTTGCAGTTAGGGGAGG  
 CCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACCTAGCCAAAACTCTGTTTA  
 CATGGGTGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAAGACCTGGGCCATTG  
 CAACCAAAATGGGACTTCTGGGTAGGAGGTCCTCCCTCTACTACTGAGCTAGGAT  
 TAGGGAGGGTTATTGCCCAACCATGCAATGGGAGGTGGAGGGACAGGCTCAGCCTCCT  
 CATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCATTCTGCTTTTGTGTACCCACCA  
 CCCCATTACCACAGCTGCCTTTGTGTGTTGTGTCAATAAAAAGCCAAACCTGGGGAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006373

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006373.3</a> , <a href="#">NP_006364.2</a>
<b>RefSeq Size:</b>	2758 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	10493
<b>UniProt ID:</b>	<a href="#">Q99536</a>
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	ADH_zinc_N
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]