

## Product datasheet for **SC122644**

### Vesicular Acetylcholine Transporter (SLC18A3) (NM\_003055) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vesicular Acetylcholine Transporter (SLC18A3) (NM_003055) Human Untagged Clone
Tag:	Tag Free
Symbol:	Vesicular Acetylcholine Transporter
Synonyms:	CMS21; VACHT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_003055 edited
CAACAGCATGTCCCTCGGCCAGCGCGGGCGGCCTCTTAGCGCGGGGGGCTGCTCTGGG
CGCGCCCCGGGCGAAGTGCGCCAGTCTCCGGCCCCGGCCCTCGGCGCGCCGACTTCC
CGGCCGCCCTGAGCCCAGCAGCCGCGGGTCCCGGGATCGGCTAAGAGTAGTGC AACCG
CTCGCCGACGGAGTCTTTCTTTCCCGGGACGCTGGCCATGAGTCCGCGGCCACCT
GAGGCACAGGGGAGTCTGCTCGGCCAGGACAGCCTCCCCGAAGTCCCGTCCCTCGCCTC
TGCACTGCGGGACGCGCAGCGCTCGGCCCTGGCGGAGCGCTCTTCGGAAGAGCATCGGGT
GGGGGCATGGAATCCGCGGAACCTGCGGGCCAGGCCCGGGCGGCCACCAAGCTGTCCG
GAGGCTGTGGGCGCGGCTGCAGGAGCCCGGGCAGAGGCGCCTGGTGTGTTATC
GTGTGCGTGGCGTGTTACTGGACAACATGCTGTACATGGTCATCGTGCCCATAGTGCC
GACTACATCGCCACATGCGCGGGGGCGGAGGGCCCCACCCGACTCCCGAGGTGTGG
GAGCCACCTGCCGCTGCCACTCCGGCCAATGCCAGCGCTACACGGCCAACACCTCG
GCGTCCCCGACAGCTGCGTGGCCAGCGGGCTCAGCCCTTCGGCCCCGCTACCCTACGGAG
AGCGAAGACGTGAAGATCGGGTGTGTTGCTTCCAAGGCTATCCTGCAGCTGCTAGTG
AACCCCTTGAGCGGGCCCTTCATCGACCGCATGAGCTACGACGTCCGCTGCTGATCGGC
CTGGGCGTCATGTTCCGCTCTACAGTCTGTTCCGCTTCGCCGAGGACTACGCCACGCTG
TTCGCGGCGCGCAGCCTGCAGGGCTGGGCTCAGCCTTCGCCGACACGTCTGGCATAGCC
ATGATCGCCGATAAGTACCCGGAGGAGCCGGAGCGCAGTCTGTCAGTGGGCGTGGCGCTG
GCCTTCATTAGCTTCGGAAGCCTAGTGGCCCCGCCCTTCGGGGGCATCCTCTATGAGTTC
GCCGGCAAGCGCGTGCCTTCTTGGTGTAGTGGCGTGTGCTTTGACGCGCTGTTG
CTGCTGGCAGTGGCCAAACCTTCTCGCGGCTGCACGGGCTCGGGCCAACTGCCAGTG
GGCACTCCCATCCACCGCCTCATGCTAGACCCCTACATTGCCGTGGTGGCCGGCGCGCTC
ACCACCTGAACATTCCCTCGCCTTCTCGAACCCACCATGGCACGTGGATGAAGCAT
ACGATGCGCGCTTCCGAGTGGGAGATGGGCATGGCCTGGCTGCCGCTTCGTGCCTCAT
GTGCTGGGCGTCTACCTACCGTGCCTGGCGCGCGCTACCCACACCTGCAGTGGCTG
TACGGCGCGCTTGGGCTGGCTGTGATCGGCGCCAGCTCGTGCATCGTGCCCGCTGCCGC
TCCTTCGCGCGCTAGTGGTCTCACTATGCGGCCCTGTGTTTGGCATAGCCCTAGTCGAC
ACAGCACTGCTGCCACGCTCGCCTTCTGGTGGACGTGCGCCATGTCTCAGTCTATGGC
AGCGTCTACGCCATCGCCGACATCTCTATTCCGTGGCCTACGCGCTCGGGCCCATAGTG
GCAGGCCACATTGTGCACTCGCTGGGCTTTGAGCAGCTCAGCCTTGGCATGGGACTGGCC
AACCTGCTCTATGCTCCGCTTGTGCTGCTCCGCAACGTGGGCTCCTGACGCGCTCC
CGTTCGAGCGCGATGTGCTGCTTGATGAGCCACCGCAAGGTCTGTACGATGCGGTGCGC
CTGCGTGAGCGTCTGTGCTGGCCAGGACGGCGAGCCTCGCAGCCCGCTGGCCCTTTT
GATGAGTGCAGGACGACTACAATACTACTACACCCGACGCTAGCATCCCCACTCCTCC
TCCAGCCACCCAACCGCTTGGTTCAAGGGGGCTGCTCTGCAAGCCACTGGCCAGCTC
TGGCTCAGGGCCACCTCCTCCAGCGAGTACCCAGCCACTCCTCAACCTTGACTTCTGC
CCAAATCCCCTCCCTGTGACCCGTTCCATATCCCTTTCTCTTTGCAATGGGGCTTGG
AGCACCAGGCCAGCGAAGCCATCGCGCTCCTTGGGAGGTGAAGAGGACCCTGAGTCCC
CACCTGCGGCTCCCTGTGTAGAGCCTGCATCTGTCTGTCTTCTTCCATTGCTCCCAG
TGCCAAACTTGGGCGCTGCACCGCGGCCCTCCGCCAAATCAATAAACTGTGTCTGTC
CCAGGAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003055 unedited NAACGACGGAATTGTATACGACTACAAGGGCGGCCCGCAATTCGCACGGGCACAGCAT GTCCCTCGGCCAGCGCGGGCGGCCTTTAGCGCGCGGGGGTGTCTGGGCGCCGCC GGGCGAAGTGCGCCAGTCTCCGGCCCCGGCCCTCGGCGCGCCCGACTTCCCGGCCGC CCTGAGCCAGCAGCCGGGTCCCGGATCGGCTAAGAGTAGCTGCAACGCCTCGCCG ACGGAGTCCTTTCTTTCCCGGACGCTGGGCCATGAGCTCCGCGGCCACCTGAGGCACA GGGGAGTCTGCTCGGCCAGGACAGCCTCCCCGAAGTCCCGTCCCTCGCCTCTGCACTGC GGGACGCCAGCGCTCGGCCCTGGCGGAGCGCTTCGGAAGAGCATCGGGGTGGGGCAT GGAATCCGCGGAACCTGCGGGCCAGGCCGGGCGCGGCCACCAAGCTGTCGAGGCTGT GGGCGCGCGCTGCAGGAGCCCCGGCGGAGAGGCGCCTGGTGTGTTATCGTGTGCGT GGGCGTGTACTGGACAACATGCTGTACATGGTCATCGTGCCCATAGTGCCCGACTACAT CGCCACATGCGCGNGGCGGCGAGGGCCCCACCCGGACTCCCGAGGTGTGGGAGCCAC CCTGCCGTGCCACTCCGGCAATGCCAGCGCCTACACGGCCAACACCTCGGCGTCCCC GACAGTGCCTGGCCAGCGGGCTCAGCCCCTTCGCCCCGCTACCCTACNGAGAGCGAAGA CGTGAAGATCGGGGTGCTNGTTGCTTCCAAGCTATCCTGCAGCTGCTAGTGAACCCCTTG AGCGGGCCCTTCATCGACCGCATGAGCTACCACNTGCCGCTGCTGATCGGGCTGGGCGTC AT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003055
<b>Insert Size:</b>	2380 bp
<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>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_003055.1</a> , <a href="#">NP_003046.1</a>
<b>RefSeq Size:</b>	2421 bp
<b>RefSeq ORF:</b>	1599 bp
<b>Locus ID:</b>	6572
<b>UniProt ID:</b>	<a href="#">Q16572</a>
<b>Cytogenetics:</b>	10q11.23
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Gene Summary:**

This gene is a member of the vesicular amine transporter family. The encoded transmembrane protein transports acetylcholine into secretory vesicles for release into the extracellular space. Acetylcholine transport utilizes a proton gradient established by a vacuolar ATPase. This gene is located within the first intron of the choline acetyltransferase gene. [provided by RefSeq, Jul 2008]