

Product datasheet for **RG202886**

Vesicular Acetylcholine Transporter (SLC18A3) (NM_003055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vesicular Acetylcholine Transporter (SLC18A3) (NM_003055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vesicular Acetylcholine Transporter
Synonyms:	CMS21; VACHT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202886 representing NM_003055
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCCGCGAACCTGCGGGCCAGGCCGGCGGCCACCAAGCTGTCGGAGGCTGTGGGCGCGG
 CGCTGCAGGAGCCCGCGGCAGAGGCGCTGGTCTTGTATCGTGTGGTGGCCTGTTACTGGACAA
 CATGCTGTACATGGTCATCGTGCCCATAGTCCCGACTACATCGCCACATGCGCGGGGGCGCGAGGGC
 CCCACCCGGACTCCCGAGGTGTGGGAGCCACCCTGCCGCTGCCACTCCGGCCAATGCCAGCGCTACA
 CGGCCAACACCTCGGCGTCCCGACAGCTGCGTGGCCAGCGGGCTCAGCCCTTCGGCCCCGCTACCTAC
 GGAGAGCGAAGACGTGAAGATCGGGGTGCTGTTTGCTTCAAGGCTATCCTGCAGCTGCTAGTGAACCC
 TTGAGCGGGCCCTTCATCGACCGCATGAGCTACGACGTCCGCTGCTGATCGGCCTGGGCGTCATGTTCC
 CCTCTACAGTCTGTTCCCTTCGCCGAGGACTACGCCACGCTGTTCCGGCGCGCAGCCTGCAGGGCCT
 GGGCTCAGCCTTCGCCGACAGCTTGGCATAGCCATGATCGCCGATAAGTACCCGGAGGAGCCGGAGCGC
 AGTCGTGCACTGGGCGTGGCGCTGGCCTTCATTAGCTTCGGAAGCCTAGTGGCCCCGCCCTTCGGGGGA
 TCCTCTATGAGTTCGCCGCAAGCGCTGCCCTTCTTGGTGTAGCTGCCGTGTCGCTCTTTGACGCGCT
 GTTGCTGCTGGCAGTGGCCAAACCCTTCTCGGCGGCTGCACGGGCTCGGGCCAACCTGCCAGTGGGCACT
 CCCATCCACCGCCTCATGCTAGACCCCTACATTGCCGTGGTGGCCGGCGCGCTCACACCTGTAACATTC
 CCCTCGCCTTCTCGAACCCACCATTGCCACGTGGATGAAGCATAACGATGGCGGCTTCCGAGTGGGAGAT
 GGGCATGGCCTGGCTGCCGGCTTCGTGCCTCATGTGCTGGGCGTCTACCTACCGTGGCCTGGCGGGC
 CGCTACCCACACCTGCAGTGGCTGACGGCGCCTTGGGCTGGCTGTGATCGGCGCCAGCTCGTGCATCG
 TGCCCGCCTGCCGCTCCTTCGCCCGCTAGTGGTCTCACTATGCGGCCTCTGTTTTGGCATAGCCCTAGT
 CGACACGCACTGCTGCCACGCTCGCCTTCTGGTGGACGTGCGCCATGTCTCAGTCTATGGCAGCGTC
 TACGCCATCGCCGACATCTCTATTCCGGTGGCCTACGCGCTCGGGCCATAGTGGCAGGCCACATTGTGC
 ACTCGCTGGGCTTTGAGCAGCTCAGCCTTGGCATGGGACTGGCCAACCTGCTCTATGCTCCCGTCTTGCT
 GCTGCTCCGCAACGTGGGCTCCTGACGCGCTCCCGTCCGAGCGCGATGTGCTGCTTATGAGCCACCG
 CAAGGTCTGTACGATGCGGTGCGCCTGCGTGGCGCTCTGTGCTGGCCAGGACGGCGAGCCTCGCAGCC
 CGCCTGGCCCTTTGATGAGTGCAGGACGACTACAATACTACTACACCCGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202886 representing NM_003055
 Red=Cloning site Green=Tags(s)
 MESAEPAGQARAATKLEAVGAALQEPRRQRRLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGEG
 PTRTPEVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPRYPTESEDVKIGVLFASKAILQLLVNP
 LSGPFIDRMSYDVPLLIGLGVMASTVLF AFAEDYATLFAARSLQGLGSFAFADTSGIAMIADKYPEEPER
 SRALGVALAFISFGSLVAPPPGGILYEFAGKRVPLVLAASLFDALLLAVAKPFSAAARARANLPVGT
 PIHRLMLDPYIAVVAGALTTCNIPLAFLEPTIATWMKHTMAASEWEMMAWLPFVPHVLGVYLVRLAA
 RYPHLQWLYGALGLAVIGASSCIVPACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSYYGSV
 YAIADISYSVAYALGPIVAGHIVHSLGFEQLSLGMGLANLLYAPVLLLLLRNVGLLTRSRSERDVLLEDEPP
 QGLYDAVRLRERPVSGQDGEPRSPGPFDECEDDYNYYYYTRS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_003055

ORF Size: 1596 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003055.1](#), [NP_003046.1](#)

RefSeq Size: 2421 bp

RefSeq ORF: 1599 bp

Locus ID: 6572

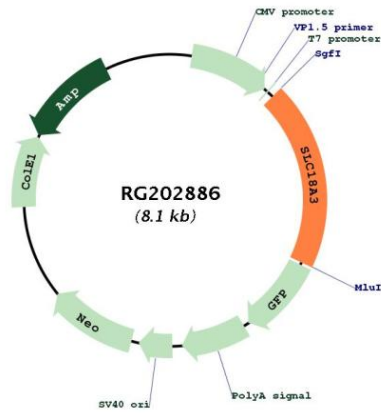
UniProt ID: [Q16572](#)

Cytogenetics: 10q11.23

Protein Families: 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]

Product images:



Circular map for RG202886