

Specifications:

| | |
|----------------|------------------|
| Gene: | hSLC18A3 |
| Accession: | AAA20497 |
| Insert size: | 1611bp |
| Concentration: | 10µg at 0.2µg/µL |

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

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|-------------|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

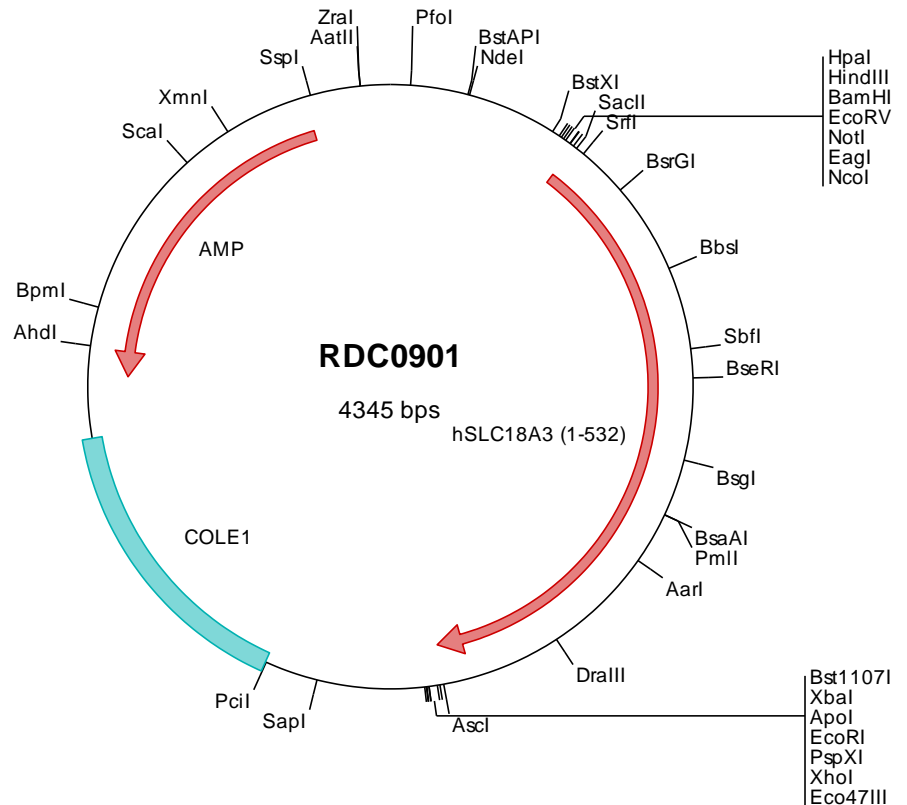
hSLC18A3/VACHT cDNA Plasmid

SLC18A3 solute carrier family 18 (vesicular acetylcholine transporter), member 3 [*Homo sapiens* (human)]

Also known as: VACHT

Summary:

SLC18A3 is a member of the vesicular amine transporter family. SLC18A3 is found in the central and peripheral nervous systems in cholinergic pre-synaptic vesicle membranes of cholinergic neurons, where it is responsible for maintaining the concentration of acetylcholine (ACh). Cholinergic synaptic vesicles contain a H⁺-ATPase, which creates an electrical gradient across the vesicular membrane. SLC18A3 acts as an ACh-H⁺ antiporter to facilitate the uptake of ACh.





> RDC0901 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggccagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggaatccg cggaaacctgc gggccaggcc cgggcccggg ccaccaagct
501 gtcggagcct gtgggcgctg ccctgcagga gcccccggcg cagaggcgcc tgggtgtgt tatcgtgtgc gtggcgctgt tactggacaa catgctgtac
601 atggctatcg tgcccattag gcccgactac atogcccaca tgcgcggggg gggcgagggc cccaccggga ctcccagggt gtgggagccc acctgcccgc
701 tgcccactcc ggccaatgcc agcgctaca cggccaaacac ctccgctcc cgcagactg ctgtgcccagc gggctcagcc cttcggcccc gctaccctac
801 ggagagcgaa gacgtgaaga tcgggggtgct gtttgcctcc aaggctatcc tgcagctgct agtgaacccc ttgagcgggc ccttcatoga ccgctgagc
901 taagcagctgc cgtgctgat cggcctgggc gtcattgttc cctctacagt cctgttccgc ttccggcagg actacgccac gctgttcgcg gcgcgagcc
1001 tgcagggcct gggctcagcc ttccgcgaca cgtctggcat agccatgac gcgataagt acccgaggga gccggagcgc agtctgtcac tgggctggcg
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1201 gtgtcgtctc ttgacgcct gttgctgctg cagatggcca aacctcttc gggcgtgca cgggctcggg ccaacctgcc agtgggcaact ccatccacc
1301 gctctatgct agaccctac attgcccgtg tggcggcgcc gctcaccacc tgtaacatc cctcgcctt cctcgaaacc accattgcca cgtggaatga
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1501 cgtaccacac acctgcagtg gctgtaagcc gcgcttggcg tggctgtgat cggcgccagc tctgtgatc tgcccgcctg ccgctcttc gcgccctag
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1701 tggcagctc tacgccaatg ccgacatctc ctattcggtg gctaacgcgc tggggccat cgtgcccagc acattgtgc actcgtggg ctttgagcag
1801 ctcagccttg gcatgggact ggccaaacctg ctctatgctc ccgtctgct gctgctccgc aacgtgggcc tctgacgcg ctcocctcc gagcgcgatg
1901 tgctgctga tgagccacc caaggtctgt acgatggct ggcctcgtg gagcgtcctg tctctggcca ggcggcgag cctcgcagcc cgcctggccc
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2401 gtatcagctc actcaaaagg gtaataacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaaag ccagcaaaaag gccaggaaac
2501 gtaaaaaggc cgcgttctg cgcgttttcc ataggtcctc cccccctgac gagcatcaca aaaatcgagc ctcaagtcag aggtggcgaa accccagagc
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2701 ggaagcgtgg cgttttctca atgctcaacc tgaagttatc caagcggta agacacgact tatcgcact ggcagcagcc actggttaaca ggattagcag
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3101 aaaaaggatc tcaagaagat cctttgatc tttctacggg gtctgacgt cagtggaaag aaaactcagc ttaagggatt ttggtcatg gattatcaaa
3201 aaggatcttc acctagatcc ttttaatta aaaatgaagt tttaaatcaa tctaaaagtat atatagtaa acttggctcg acagttacca atgcttaac
3301 agtgaggcac ctatctcagc gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat accggagggc ttaccatctg
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3501 tgcaacttta tccgcctcca tccagctat taattgttc cgggaagcga gagtaagtag ttccgcaagt aatagtttc aatagtttc tgccattgct
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4201 ggatacatat ttgaatgtat ttgaaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaaagtc cacctgacgt ctaagaaacc attattatca
4301 tgacattaac ctataaaaat aggcgatca cgagcccctt tcgtc

> RDC0901 Translated Insert Sequence

1 mesaepagqa raaatklease vgaalqeprr qrrllvlvvc vallldnmlly mvivpivpdy iahmrqggg pprtpevwep tlpptpana saytantsas
101 ptaawpagsa lrpryptese dvkigvlfas kailqllvnp lsgpfidrms ydvplliglg vmfastvlfa faedyatlfa arslqglgfa fadtsgiami
201 adkypeeper sralgvalaf isfsglvapp fggilyefag krvpflvlaa vslfdallll avakpfsaaa raranlpvgt pihrmlldpy iavvagaltt
301 cniplaflep tiatwmkht m aasewemgma wlpafvphvl gvyltvrlaa ryphlqlwlyg alglavigas scivpacrsf aplvvsldgl cfgialvdta
401 llptlafldv vrhvsyfgsv yaiadisysv ayalgpivag hivhslgfeq lslgmglanl lyapvllllr nvgltrsr s erdvlldepp qglydavrlr
501 erpvsqgdge prspvpgfde ceddynyyt rs