hSLC6A2/NET VersaClone cDNA

Catalog Number: RDC1141

Specifications:

Gene:	*h*SLC6A2
Accession:	NP_001165975
Insert size:	1900bp
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

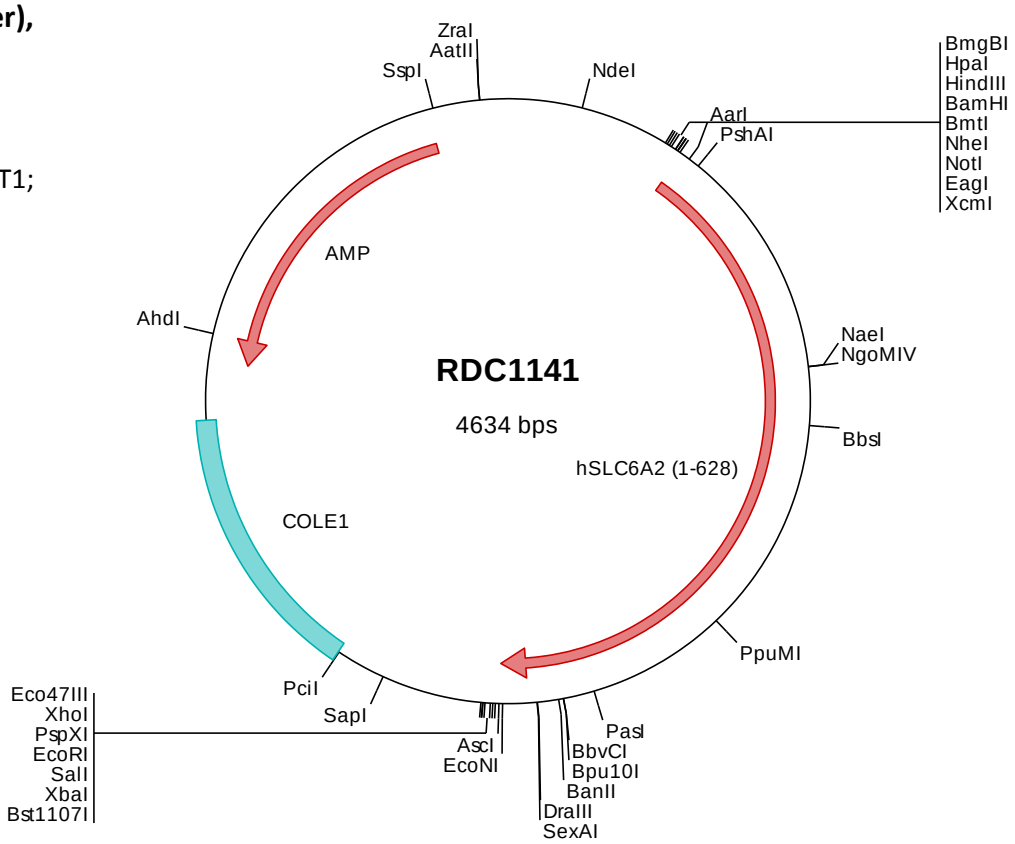
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*SLC6A2/NET cDNA Plasmid

SLC6A2 solute carrier family 6 (neurotransmitter transporter), member 2 [*Homo sapiens* (human)]

Also known as: NET; NAT1; NET1; SLC6A5

Summary:
SLC6A2 is a multi-pass membrane protein and belongs to the sodium:neurotransmitter symporter family. SLC6A2 is responsible for reuptake of norepinephrine into presynaptic nerve terminals and is a regulator of norepinephrine homeostasis. Mutations in SLC6A2 cause orthostatic intolerance, a syndrome characterized by lightheadedness, fatigue, altered mentation, and syncope. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1141 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcttctgg cgcggatgaa cccgcaggtg cagcccgaga acaacggggc
 501  ggacacgggt ccagagcagc cccttcgggc gcgcaaaact gcggagctgc tggtggtgaa ggagcgcaac ggcgtccagt gcctgctggc gccccgcgac
 601  ggcgacgcgc agccccggga gacctggggc aagaagatcg acttcctgct gtccgtagtc ggcttcgcag tggacctggc caacgtgtgg cgcttcccct
 701  acctctgcta caagaacggc ggcggtgcct tcttgatccc gtacacactg ttccttatca tcgcggggat gcccctgttc tacatggagc tggctctggg
 801  acagtacaac cgggaggggg ctgccaccgt ttggaaaatc tgcccattct tcaaaggcgt tggctatgct gtcatcctga tcgccctgta cgttggcttc
 901  tactacaacg tcatcatcgc ctggtcactc tactacctct tctcctcctt caccctcaac ctgccctgga ccgactgtgg ccacacctgg aacagcccca
1001  actgtaccga ccccaagctc ctcaatggct ccgtgcttgg caaccacacc aagtactcca agtacaagtt cacgccggca gccgagtttt atgagcgtgg
1101  tgtcctgcac cttcacgaga gcagcgggat tcatgacatc ggcctgcccc agtggcagct cttgctctgt ctgatggtcg tcgtcatcgt cttgtatttt
1201  agcctctgga aaggggtgaa gacatcagga aaggtggtgt ggatcacagc cacgctgcct tacttcgtgc tgttcgtgct cctggtccat ggcgtcacgc
1301  tgcccggagc ctccaatggc atcaatgcct acctgcacat cgacttctac cgcttgaaag aggccacggt atggattgat gccgcaactc agatattttt
1401  ttccttgggg gctggatttg gagtattgat tgcatttgcc agttacaaca aatttgacaa caactgttac agggatgccc tgctgaccag cagcatcaac
1501  tgtatcacca gcttcgtctc tgggttcgcc atcttctcca tccttggtta catggcccat gaacacaagg tcaacattga ggatgtggcc acagaaggag
1601  ctggcctagt gttcatcctg tatccagagg ccatttctac cctgtctgga tctacattct gggctgttgt gtttttcgtc atgctcctgg cgctgggcct
1701  tgacagctca atgggaggca tggaggctgt catcacgggc ctggcagatg acttccaggt cctgaagcga caccggaaac tcttcacatt tggcgtcacc
1801  ttcagcactt tccttctcgc cctgttctgc ataaccaagg gtggaattta cgtcttgacc ctcctggaca cctttgctgc gggcacctcc atccttttg
1901  ctgtcctcat ggaagccatc ggagtttcct ggttttatgg agtggacagg ttcagcaacg acatccagca gatgatgggg ttcaggccgg gtctatactg
2001  gagactgtgc tggaagttcg tcagtcctgc cttcctcctg ttcgtggttg tggtcagcat catcaacttc aagccactca cctacgacga ctacatcttc
2101  ccgccctggg ccaactgggt ggggtggggc atcgccctgt cctccatggt cctggtgccc atctacgtca tctataagtt cctcagcacg cagggctctc
2201  tttgggagag actggcctat ggcatcacgc cagagaacga gcaccacctg gtggctcaga gggacatcag acagttccag atgaaaacga gacaagggag
2301  aaggagagct accaactctt gccagatatc ctgctaaagg cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt
2401  ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt
2501  gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac
2601  gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca
2701  ctcaaaggcg gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc
2801  gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat
2901  accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc
3001  gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc
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3201  taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg
3301  aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct
3401  caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa aggatcttca
3501  cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc
3601  tatctcagcg atctgtctat ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct
3701  gcaatgatac cgcgagaccc acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat
3801  ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt
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4001  tccttcggtc ctccgatcgt tgtcagaagt aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg
4101  taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa
4201  taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg
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4501  tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc
4601  tataaaaata ggcgtatcac gaggcccttt cgtc
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> RDC1141 Translated Insert Sequence

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 101  fliiagmplf ymelalgqyn regaatvwki cpffkgvgya vilialyvgf yynviiawsl yylfssftln lpwtdcghtw nspnctdpkl lngsvlgnht
 201  kyskykftpa aefyergvlh lhessgihdi glpqwqlllc lmvvvivlyf slwkgvktsg kvvwitatlp yfvlfvllvh gvtlpgasng inaylhidfy
 301  rlkeatvwid aatqiffslg agfgvliafa synkfdnncy rdalltssin citsfvsgfa ifsilgymah ehkvniedva tegaglvfil ypeaistlsg
 401  stfwavvffv mllalgldss mggmeavitg laddfqvlkr hrklftfgvt fstfllalfc itkggiyvlt lldtfaagts ilfavlmeai gvswfygvdr
 501  fsndiqqmmg frpglywrlc wkfvspafll fvvvvsiinf kpltyddyif ppwanwvgwg ialssmvlvp iyviykflst qgslwerlay gitpenehhl
 601  vaqrdirqfq mktrqgrrra tnscqisc
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