

Specifications:

Gene:	hSLC6A1
Accession:	NP_003033
Insert size:	1813bp
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.

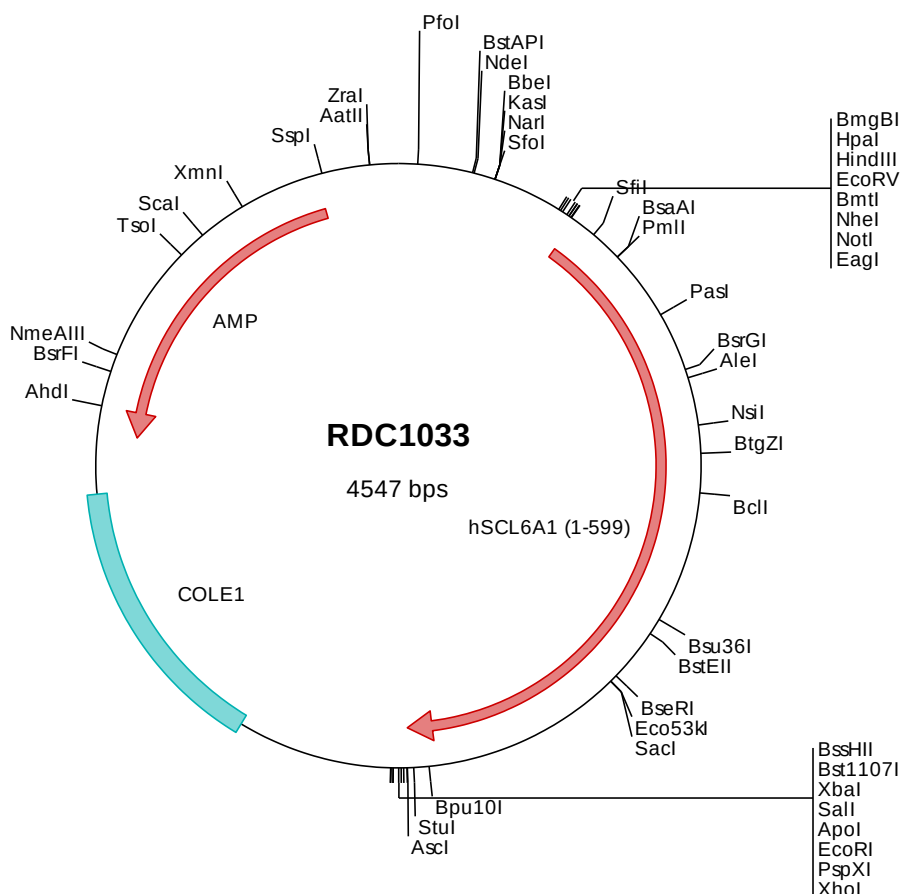
hGAT-1/SLC6A1 cDNA Plasmid

SLC6A1 solute carrier family 6 (neurotransmitter transporter), member 1 [*Homo sapiens* (human)]

Also known as: GAT1; GABATR; GABATHG

Summary:

SLC6A1 is a gamma-aminobutyric acid (GABA) transporter. It terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals. GABA transporters may play an important role in epilepsy, affective disorders, and schizophrenia.





> RDC1033 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgttaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggga acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tgcgtagcgc ggccgcaccc atggcgacca acggcgagcaa ggtggccgac gggcagatct ccaccgaggt
501  cagcgaggcc cctgtggcca atgacaagcc caaaaccttg gtggccaagg tgcagaagaa ggccgcagac ctcccagacc gggacacgtg gaaggccgc
601  ttcgacttcc tcatgtctctg tgtgggctat gccatcgccc tgggcaacgt ctggagggtc ccctatctct cggggaaaaa tgggtgggga gccttctctga
701  tcccctattt cctgacaactc atctttgcgg ggggtccact cttcctctctg gagtgtctcc tgggcccagta cactctcactc ggggggctag gggtaggaa
801  caggtgctcc atgttcaagg gcgtgggcct tgcggtctct gtgctatcat tctggctgaa catctactac atcgtactca tctcctgggc catttactac
901  ctgtacaact ccttccaccac gacactgccg tggaaaacagt cggacaaccc ctggaacaca gaccgctgct totccaacta cagcatggtc aacactacca
1001 acatgaccag cgctgtgggtg gagtctctgg agcgcaacat gcactcagat acggacgggc tggataagcc aggtcagatc cgctggccac tggccatcac
1101 cgctggccat cctgtgattt ctgtatctgg aagggtgttg gctggactgg aaaggtggto tacttttcag ccacataccc ctacatcatg
1201 ctgatcatcc tgtttctccg tggagtgaag ctgccggggg ccaaggaggg catcctcttc tacatcacac ccaacttcog caagctgtct gactccgagg
1301 tgtggctgga tgcggcaacc cagatcttct tctcatcagg gctgggcctg gggctccctga tgcctctcgg gagctacaac tctttccaca acaatgtcta
1401 cagggactcc atcatcgtct gctgcataca ttogtgcacc agcatgttcg caggattcgt catctctccc atcgtgggct tcatggccca tgtcaaccaag
1501 aggtccattg ctgatgtggc ggctcaggcc ccggggctgg cgttctctggc ataccagag gcggtgaccc agctgcctat ctccccaactc tgggccaatcc
1601 tcttctctct catgctgttg atgctgggca ttgacagcca gttctgcact gtggagggtc tcatcacagc cctggtgga tagtacacca ggtctctccg
1701 caacgcagga gactctctca ttgctctctg ctgcatacct tcttactctga tccgtctctc taacatacact caggggggta tttatgtctt caaactctctt
1801 gactactact ctgccagtgg catgagcctg ctgttctctg tgttctctga atgtgtctct atttctctgt tttacggtgt caaccgattc tatgacaata
1901 tccaaagagat ggttggatcc aggcctctga tctggtgaa actctgtctg tcttctctca caccaatcat tgtggcgggc gtgttctatt tcaagtctgt
2001 gcagatgacg ccactgaccc ttgtttccccc aagtgggggc aggtgtgggt ctggctgatt gctctgtctt cctgtgtctt catcccccgg caatcccccgg
2101 tacatggcct acatgttctt cactttaaag ggtccctga agcagcgcat ccaagtcagt gtccagccca gcgaagacat cgttcgcccc gagaatgggtc
2201 ctgagcagcc ccaggcgggc agctccacca gcaaggaggc ctacatctaa aggcgcgcca gtatactcta gactcgacac ccggggaatt cctcgagcgc
2301 tcgtctctag cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagt
2401 taaagcctgg ggtgcctaata gactgagcta actcactata attcgcttgc gctcactgcc cgctttccag tccgggaaacc tgtcgtgcca gctgcattaa
2501 tgaatcggcc aacgcgcggg gagaggcggg ttgcgtattg ggcgctcttc agcgtctgta gataacagag gaaagaaacat gtgagcaaaa ggccagcaaa
2601 cggtatcagc tcaactcaaa gcggtaatac ggttatccac agaatacagg gataacagag caaaaatcga cgctcaagtc agaggtggcg aaaccgcaga
2701 ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc cgccccctg acgagatca tccgtgttcc accctgcgcg ttaccggata cctgtccgcc
2801 ggactataaa gataccagcc gtttccccct ggaagctccc tctgtgcctc tctgttccg accctgcgcg ttaccggata cctgtccgcc
2901 cggaagcgtg ggcgctttct caatgctcac gctgtaggta tctcagttcg gttgtaggta gctgtgctcc gctgagcaac gtcgacgaac ccccccttca
3001 gcccagaccg tgcgccttat ccggttaacta tctgtttgag tccaacccgg taagacaaga cttatcgcca ctggcagcag ccactggtaa caggattagc
3101 agagcgaggt atgtaggcgg tgtacagag tcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg tatctgcgct ctgtgaagc
3201 cagttacctt cggaaaaaga gttggtagct cttgatcccg agaatacagg gataacagag ccggtgtgtt ttttgttgc aagcagcaga ttacgcgag
3301 aaaaaaagga totcaagaag atcctttgat cttttctacg ggtctctgac ctcatgtgaa cgaaaaactca cgtaagggga ttttggtoat gagattatca
3401 aaaaggatct tcacctagat ccttttaaat taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac caatgcttaa
3501 tcagtgaagg cactatctca gcgactctgtc tatttcgctc atccatagt atccatagct gctcgtgta gataactacg ataccggagg gcttaccatc
3601 tggccccagt gctgcaatgc taccgcgaga cccacgctca ccggtccag atttatcagc tagagtaagt agttcgccag ttaatatgtt tttgcccatt
3701 cctgcaactt tatccgcctc catccagctct attaatgttt ttggtatggc ttcattcagc tccggttccc aacgatcaag gcgagttaca tgatccccc
3801 ctacaggcat cgtgggtgta cgctcgtcgt ttggtatggc cgtttctcag agtaagttgg ccgcagtggt atcactcatg gttatggcag cactgcataa
3901 aaaagcgggt agctccttgc gtcctccgat cgtttctcag actggtgagt actcaaccaa gtcattctga gaatagtgtg tgcggcgacc gactgtctct
4001 gtcatggcat ccgtaagatg cttttctgtg gaactttaaa agtgcctatc atttgaaaac attttacttt caccagcgtt tctgggtgag caaaaaacag
4101 caatacggga taataccgcg ccacatagca gaactttaaa acccaactga tcttcacgat cttttacttt caatattatt tctagggttat tgcagggttat
4201 gagatccagt tcgatgtaac ccactcgtgc aactgtgtaa taactgtgaa tactcatact cttccttttt caatattatt tctagggttat tgcagggttat
4301 gcccgaaaaa aggaataaag ggcgacacgg aaatgtgtaa tactcatact cttccttttt caatattatt tctagggttat tgcagggttat
4401 goggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg cgcacatttc cccgaaaagt gccacctgac gtctaagaaa ccattattat
4501 catgacatta acctataaaa ataggcgat caccaggccc tttcgtc
```

> RDC1033 Translated Insert Sequence

```
1   matngskvad gqistevsea pvandkpktl vvkvvkkaad lpdrdtwkgf fdfllmfcvgy aiglgnvwrf pylcgnkngg aflipyfltl ifagvplfll
101  ecslgdytsi gglgvwklap mfkvgvllaaa vlsfwlniyy iviiswaiyy linsfthtlp wkqcdnpwnt drcfnsysmv nttnmtsavv efwerhmhgm
201  tdglgdkpgqi rwpplaitlai awilvyfcw kvvgwtgkvv yfsatypyim liillfrrgtv lpgakegilf yitpnfrkls dsewldaat qiffsyglgl
301  gslialgsyn sfhnnvyrdi iivccinsct smfagfvifs ivgfmahtvk rsiadvaaag pglaflaype avtqlpispl wailffsml1 mlgidsqfct
401  vegfitalvd eyprllrnrr elfiaavcii syliglsnit qggiyvfklf dyysasgmsl lflvffecvs iswfygvnrf ydnieqmvgs rpiwkwkclw
501  sfftpiivag vfifsavgmt pltmgnvyvfp kwqggvgwlm alssmvllpg ymaymfltlk gslkqriqvm vqpsedivrp engpeqpqag sstskeyai
```