# *h*SLC6A7 VersaClone cDNA

**Catalog Number: RDC1124**

## Specifications:

| | |
|---|---|
| Gene: | *h*SLC6A7 |
| Accession: | NP_055043 |
| Insert size: | 1924bp |
| 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

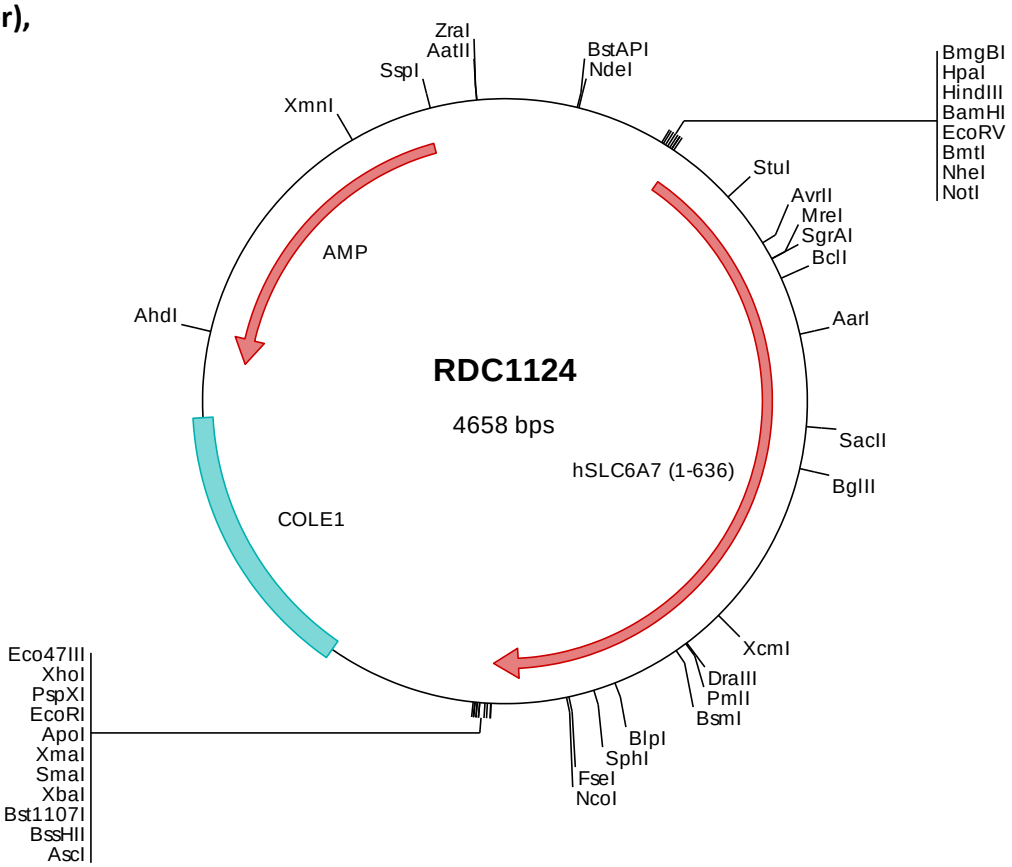
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *h*SLC6A7 cDNA Plasmid

**SLC6A7 solute carrier family 6 (neurotransmitter transporter), member 7 [ *Homo sapiens* (human) ]**

**Also known as:** PROT

**Summary:**
SLC6A7 is a member of the gamma-aminobutyric acid (GABA) neurotransmitter gene family. It is a high-affinity mammalian brain L-proline transporter protein. SLC6A7 terminates the action of proline by its high affinity sodium-dependent reuptake into presynaptic terminals. SLC6A7 differs from other sodium-dependent plasma membrane carriers by its pharmacological specificity, kinetic properties, and ionic requirements.




FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC1124 Plasmid DNA Sequence

```
   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 atgaagaagc tccagggagc tcacctccgc aagcctgtca ccccagacct
 501  gctgatgacc cccagtgacc agggcgatgt cgacctggat gtggactttg ctgcacaccg ggggaactgg acaggcaagc tggacttcct gctgtcctgc
 601  attggctact gtgtaggcct ggggaatgtc tggcgcttcc cctatcgagc gtacaccaat ggaggaggcg ccttcctcgt gccctacttc ctcatgctgg
 701  ccatctgtgg catccccctc ttcttcctgg agctctccct gggccagttc tccagcctag ggcccctggc tgtctggaaa atcagccctc tcttcaaagg
 801  cgccggcgca gccatgctgc tcatcgtggg cttggtggcc atctactaca acatgatcat cgcctacgtg ctcttctacc tcttcgcctc cctcaccagc
 901  gacctaccct gggagcactg tggcaactgg tggaacacag aactctgcct ggagcacaga gtctccaagg acggcaacgg ggccctgccc ctcaacctca
1001  cctgcaccgt cagccccagc gaggagtact ggagccgcta cgtcctccac atccaaggca gccagggcat cggcagccct ggggagatcc gctggaacct
1101  ctgcctctgc ctgctgctgg cctgggtcat cgtgttcctc tgtatcctca agggtgtgaa gtcttcgggc aaggtggtgt atttcacggc cacgttcccc
1201  tacctcatcc tgctcatgct gctggtccgc ggagtcaccc tcccaggggc ctggaagggc atccagttct atctcacccc ccagttccac cacttgttgt
1301  cttccaaggt gtggattgaa gctgctcttc agatcttcta ttccctgggt gtgggcttcg gggggctcct caccctttgcc tcctacaaca cgtttcacca
1401  gaacatctat agagacactt tcatcgtcac tctgggcaac gccatcacca gcatcctggc tggctttgcc atcttctccg tgctgggcta catgtctcag
1501  gagctgggcg tgcctgtgga ccaagtagcc aaagcaggcc ctggcctggc ctttgtcgtc tacccacagg ccatgaccat gctgcctctg tcacccttct
1601  ggtccttcct cttcttcttc atgcttctga ctctcggcct agacagccag tttgcttttc tggagaccat tgtgacagct gtgacagatg agttcccata
1701  ctacctgcgg cccaagaagg cggtgttctc agggctcatc tgcgtggcca tgtacctgat ggggctgatc ctcaccactg atgggggcat gtactggctg
1801  gtccttctgg atgactacag cgccagcttc gggctgatgg tggtggttat caccacgtgc cttgccgtga cacgggtgta tggcattcag aggttctgcc
1901  gagacatcca catgatgctg ggcttcaagc cgggcctcta cttcagggcc tgctggctgt tcctgtcccc agccacgctc ttggccctca tggtgtatag
2001  catcgtcaag taccagccct cggagtatgg cagttaccgc ttcccgccct gggctgagct gctgggcatc ctgatgggcc tgctgtcctg cctcatgatc
2101  ccagctggca tgctggtggc tgtgcttcga gaagagggct cactctggga gcggctccaa caggccagcc ggccggccat ggactgggga ccatcgctgg
2201  aggagaaccg gacgggcatg tatgtggcca cgctggctgg gagccagtca ccaaagccac tgatggtgca catgcgcaag tacgggggca tcaccagctt
2301  cgagaacacg gccatcgagg tggaccgtga gattgcagag gaggaggagt cgatgatgta aaggcgcgcc agtatactct agagtcgaca cccggggaat
2401  tcctcgagcg ctcgtctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg ctcacaattc cacacaacat acgagccgga
2501  agcataaagt gtaaagcctg gggtgcctaa tgagtgagct aactcacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc
2601  agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct cggtcgttcg
2701  gctgcggcga gcggtatcag ctcactcaaa ggcggtaata cggttatcca cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa
2801  aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgccccct gacgagcatc acaaaaatcg acgctcaagt cagaggtggc
2901  gaaacccgac aggactataa agataccagg cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc gaccctgccg cttaccggat acctgtccgc
3001  ctttctccct tcgggaagcg tggcgctttc tcaatgctca cgctgtaggt atctcagttc ggtgtaggtc gttcgctcca agctgggctg tgtgcacgaa
3101  ccccccgttc agcccgaccg ctgcgcctta tccggtaact atcgtcttga gtccaacccg gtaagacacg acttatcgcc actggcagca gccactggta
3201  acaggattag cagagcgagg tatgtaggcg gtgctacaga gttcttgaag tggtggccta actacggcta cactagaagg acagtatttg gtatctgcgc
3301  tctgctgaag ccagttacct tcggaaaaag agttggtagc tcttgatccg gcaaacaaac caccgctggt agcggtggtt tttttgtttg caagcagcag
3401  attacgcgca gaaaaaaagg atctcaagaa gatcctttga tcttttctac ggggtctgac gctcagtgga acgaaaactc acgttaaggg attttggtca
3501  tgagattatc aaaaaggatc ttcacctaga tccttttaaa ttaaaaatga agttttaaat caatctaaag tatatatgag taaacttggt ctgacagtta
3601  ccaatgctta atcagtgagg cacctatctc agcgatctgt ctatttcgtt catccatagt tgcctgactc cccgtcgtgt agataactac gatacgggag
3701  ggcttaccat ctggccccag tgctgcaatg ataccgcgag acccacgctc accggctcca gatttatcag caataaacca gccagccgga agggccgagc
3801  gcagaagtgg tcctgcaact ttatccgcct ccatccagtc tattaattgt tgccgggaag ctagagtaag tagttcgcca gttaatagtt tgcgcaacgt
3901  tgttgccatt gctacaggca tcgtggtgtc acgctcgtcg tttggtatgg cttcattcag ctccggttcc caacgatcaa ggcgagttac atgatccccc
4001  atgttgtgca aaaaagcggt tagctccttc ggtcctccga tcgttgtcag aagtaagttg gccgcagtgt tatcactcat ggttatggca gcactgcata
4101  attctcttac tgtcatgcca tccgtaagat gcttttctgt gactggtgag tactcaacca agtcattctg agaatagtgt atgcggcgac cgagttgctc
4201  ttgcccggcg tcaatacggg ataataccgc gccacatagc agaactttaa aagtgctcat cattggaaaa cgttcttcgg ggcgaaaact ctcaaggatc
4301  ttaccgctgt tgagatccag ttcgatgtaa cccactcgtg cacccaactg atcttcagca tcttttactt tcaccagcgt ttctgggtga gcaaaaacag
4401  gaaggcaaaa tgccgcaaaa aagggaataa gggcgacacg gaaatgttga atactcatac tcttcctttt tcaatattat tgaagcattt atcagggtta
4501  ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaacaaa taggggttcc gcgcacattt ccccgaaaag tgccacctga cgtctaagaa
4601  accattatta tcatgacatt aacctataaa aataggcgta tcacgaggcc ctttcgtc
```

## > RDC1124 Translated Insert Sequence

```
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 101  sslgplavwk isplfkgaga amllivglva iyynmiiayv lfylfaslts dlpwehcgnw wntelclehr vskdgngalp lnltctvsps eeywsryvlh
 201  iqgsqgigsp geirwnlclc lllawvivfl cilkgvkssg kvvyftatfp ylillmllvr gvtlpgawkg iqfyltpqfh hllsskvwie aalqifyslg
 301  vgfggllfa syntfhqniy rdtfivtlgn aitsilagfa ifsvlgymsq elgvpvdqva kagpglafvv ypqamtmlpl spfwsflfff mlltlgldsq
 401  fafletivta vtdefpyylr pkkavfsgli cvamylmgli lttdggmywl vllddysasf glmvvvittc lavtrvygiq rfcrdihmml gfkpglyfra
 501  cwlflspatl lalmvysivk yqpseygsyr fppwaellgi lmgllsclmi pagmlvavlr eegslwerlq qasrpamdwg psleenrtgm yvatlagsqs
 601  pkplmvhmrk yggitsfent aievdreiae eeesmm
```