

## Specifications:

Gene:	<i>hSLC5A5</i>
Accession:	NP_000444
Insert size:	1945bp
Concentration:	10µg at 0.2µg/µL

## hSLC5A5 cDNA Plasmid

**SLC5A5 solute carrier family 5 (sodium iodide symporter), member 5 [ *Homo sapiens* ]**

**Also known as:** NIS; TDH1

### Summary:

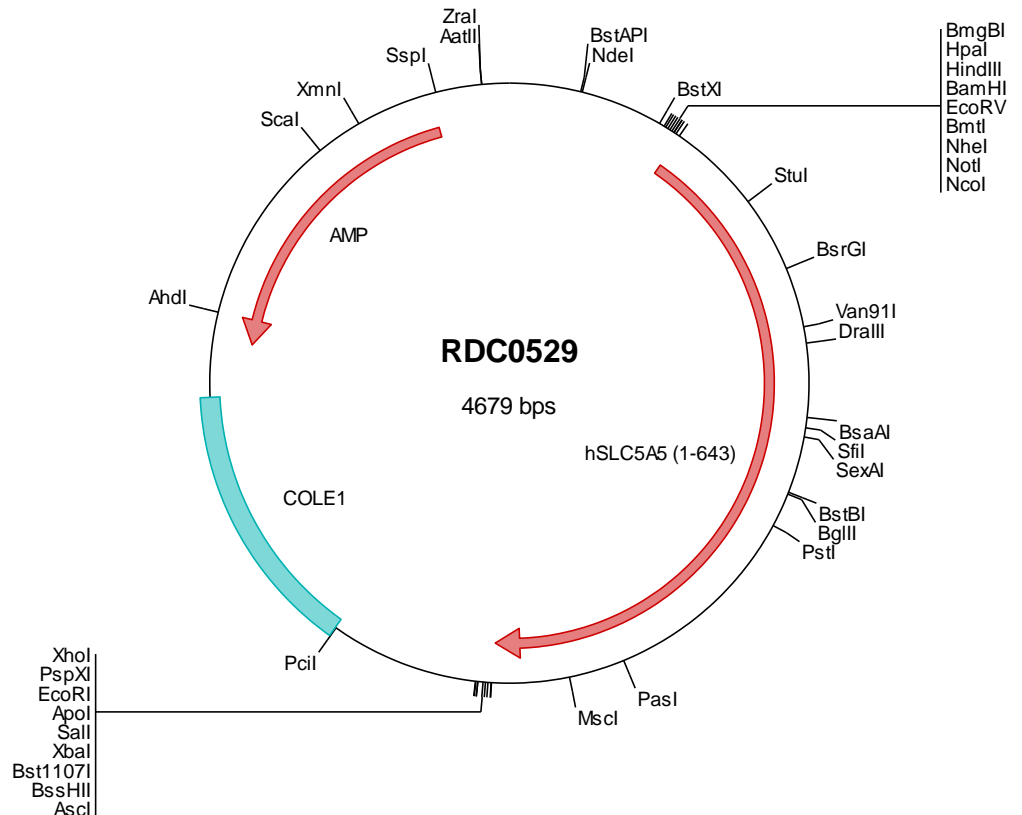
SLC5A5 is a member of the sodium glucose cotransporter family that is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast. Mutations in this gene are associated with thyroid dysmorphogenesis 1.

## 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.





> RDC0529 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301 taacggcagct ggcgaaaagg ggaatgtctg caaggcgatt aagtgggta acgcccagggt ttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggaatccgata tcgctagcgc gggcgcacc atggaggcgg tggagaccgg ggaacggccc accttcggag cctgggacta
501 cggggtcttt gccctcaatgc tcctgggtgc cactggcaatc gggctgtggg tcgggtggc tcggggcggg cagcgcagcg ctgaggactt cttaocggg
601 ggccggcgcc tggcggccct gccogtgggc ctgtcgtctg ctgccagctt catgtcggcc gtgcaggtgc tggcgtgccc gtcggaggcc taatcgctatg
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801 ctacgagtac ctggagatgc gctcagcccg cgcagtgccc ctctcgggga ctttgcagta cattgtagcc acgatgtctg acaccggcat cgttaotac
901 gcaaccggccc tcatcctgaa ccaagtgacc gggctggaca totggcgctc gctcctgtcc accggaatta totgcaactt ctacaccgct gtggcgcca
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1501 accctcaaga cagatccac cagatcaaat gctatggctg cagtcaactg agaagaacct atcaaacctc ggctcgggag cctggcacc aggaaactcg
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2401 tagagtgcac acccgggaa ttctcgagc gctctctct agcttggcgt aatcatggtc atagctgtt cctgtgtgaa attgttatcc gctcaaat
2501 ccacacaaca tacgagccgg aagcataaag tgtaaaagct ggggtgctca atgagtgc taactcacat taattgctt gcgctcact cccgcttcc
2601 agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg caagcgcgg gggagagggc ggttgcgtat tggcgctct tccgctctct cgctactga
2701 ctgcctgcgc tcggtcgttc ggtcgcggcg agcggatca gctcactcaa agcggtaat acggttatcc acagaatcag gggataaccg aggaaagaac
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3701 tagataacta cgatacggga ggccttacc tctggcccc aaaaaagcgg gtagctcctt gatacccgca gaccacgct caccgctcc agatttaca
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4201 tatgcggcga ccgagttgct cttgcccggc gtaaacacgg gataataacc cgcacacatag cagaacttta aaagtgtca tcattggaaa acgttctctg
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4601 gtcaccctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt atcacaggc cctttcgtc

> RDC0529 Translated Insert Sequence

1 meavetgerp tfgawdygvf almlvstgi glwvlgarg qrsaedfftg grlraalpvq lslsasfmsa vqvlvqpsea yryglkflwm clgqllnsvl
101 tallfmpvfy rlglststeyf lemrfsravr lcgltqyiva tmltvtgivi apalilnqvt gldiwaslls tgiictfyta vggmkavvwt dvfquvmls
201 gfwvvlarg mlvggprqvl tlaqnhsrin lmdfnpdprs rytfwtfvvg gtlvwlsmg vnqaqvryv acrtekqakl allinqvglf livssaaccg
301 ivmfvytdc dp1lllgrisa pdqympllv1 difedlpgvp glflacaysg tlstastsin amaavtvedl ikprlrslap rklviiskgl sliygsactl
401 vaalsslgg gvlqsgftvm gvisgplla filgmflpac ntpgvlaglg aglalslwva lgatlyppse qtmrvlpssa arcvalsna sglldpallp
501 andssrapss gmdasrpala dsfyaislyl ygalgtlttv lcgalisclt gptkrstlap gllwldiarq tasvapkeev ailddnlvkg peelptgnk
601 ppgfllptned rlfflgqkel egagswtvpcv ghdggrdqe tnl