*h*SGLT2/SLC5A2 VersaClone cDNA

Catalog Number: RDC0557

Specifications:

Gene:	hSLC5A2
Accession:	NP_003032
Insert size:	2032bp
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

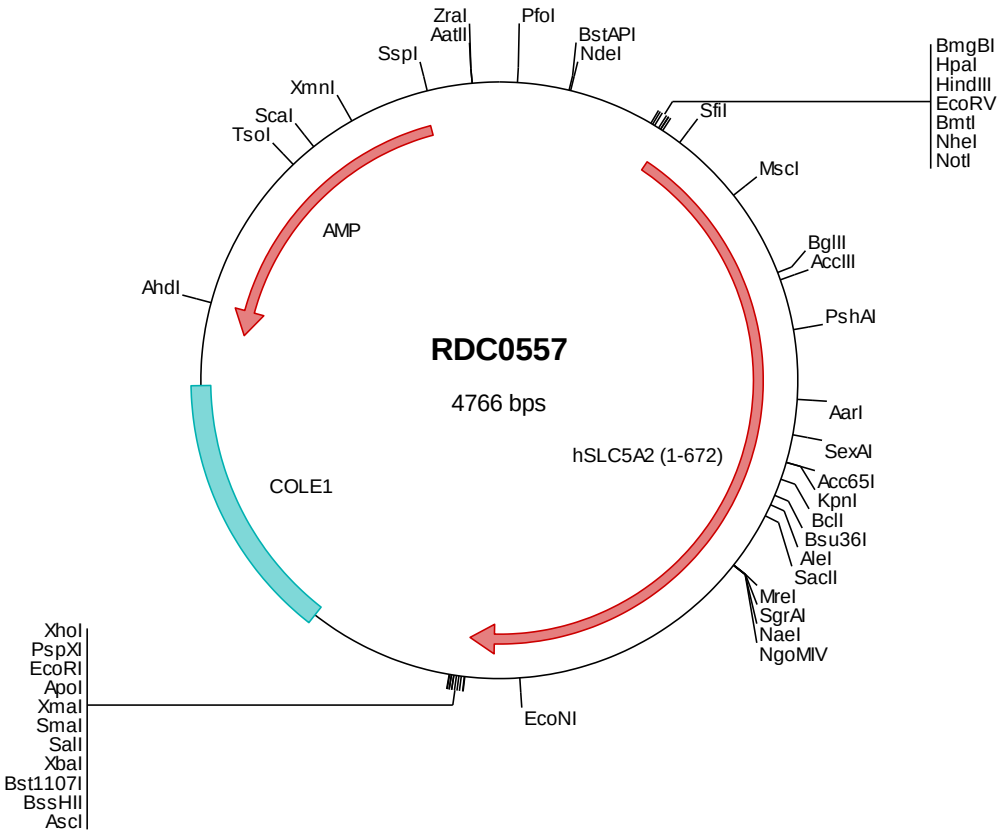
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*SGLT2/SLC5A2 cDNA Plasmid

SLC5A2 solute carrier family 5 (sodium/glucose cotransporter), member 2 [*Homo sapiens*]

Also known as: SGLT2

Summary:
SLC5A2 is a member of the sodium glucose cotransporter family which are sodium-dependent glucose transport proteins. SLC5A2 is the major cotransporter involved in glucose reabsorption in the kidney. Mutations in SLC5A2 are associated with renal glucosuria. It has been suggested that insulin is a SLC5A2 agonist in vivo.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0557 Plasmid DNA Sequence

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 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 atggaggagc acacagaggc aggctcggca ccagagatgg gggcccagaa
 501  ggccctgatt gacaatcctg ctgacatcct agtcattgct gcatatttcc tgctggtcat tggcgttggc ttgtggtcca tgtgcagaac caacagaggc
 601  actgtgggcg gctacttcct ggcaggacgc agcatggtgt ggtggccggt tggggcctct ctcttcgcca gcaacatcgg cagtggccac tttgtgggcc
 701  tggcagggac tggcgctgca agtggcttgg ctgttgctgg attcgagtgg aatgcgctct tcgtggtgct gctactgggc tggctgtttg cacccgtgta
 801  cctgacagcg ggggtcatca cgatgccaca gtacctgcgc aagcgcttcg gcggccgacg catccgcctc tacctgtctg tgctctccct tttcctgtac
 901  atcttcacca agatctcagt ggacatgttc tccggagctg tattcatcca gcaggctctg ggctggaaca tctatgcctc cgtcatcgcg cttctgggca
1001  tcaccatgat ttacacggtg acaggagggc tggccgcgct gatgtacacg gacacggtac agaccttcgt cattctgggg ggcgcctgca tcctcatggg
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1401  tgggtacctg aagctgacgc ccatgtttct catggtcatg ccaggcatga tcagccgcat tctgtaccca gacgaggtgg cgtgcgtggt gcctgaggtg
1501  tgcaggcgcg tgtgcggcac ggaggtgggc tgctccaaca tcgcctaccc gcggctcgtc gtgaagctca tgcccaacgg tctgcgcgga ctcatgctgg
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1701  cggcgaccgc gagctgctgc tggtgggacg gctctgggtg gtgttcatcg tggtagtgtc ggtggcctgg cttcccgtgg tgcaggcggc acagggcggg
1801  cagctcttcg attacatcca ggcagtctct agctacctgg caccgcccgt gtccgccgtc ttcgtgctgg cgctcttcgt gccgcgcgtt aatgagcagg
1901  gcgccttctg gggactcatc gggggcctgc tgatgggcct ggcacgcctg attcccgagt tctccttcgg ctcgggcagc tgtgtgcagc cctcggcgtg
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2201  ctgtacagaa tgggtgccca gagagtgcca tggagatgaa tgagccccag gccccggcac caagcctctt ccgccagtgc ctgctctggt tttgtggaat
2301  gagcagaggt ggggtgggca gtcctccgcc ccttacccag gaggaggcag cggcagcagc caggcggctg gaggacatca gcgaggaccc gagctgggcc
2401  cgtgtggtca acctcaatgc cctgctcatg atggcagtgg ccgtgttcct ctggggcttc tatgcctaaa ggcgcgccag tatactctag agtcgacacc
2501  cggggaattc ctcgagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac
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2901  gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gcccccctga cgagcatcac aaaaatcgac gctcaagtca
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> RDC0557 Translated Insert Sequence

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201  dtvqtfvilg gacilmgyaf hevggysglf dkylgaatsl tvsedpavgn issfcyrprp dsyhllrhpv tgdlpwpall lgltivsgwy wcsdqvivqr
301  clagkslthi kagcilcgyl kltpmflmvm pgmisrilyp devacvvpev crrvcgtevg csniayprlv vklmpnglrg lmlavmlaal msslasifns
401  sstlftmdiy trlrpragdr elllvgrlwv vfivvvsvaw lpvvqaaggg qlfdyiqavs sylappvsav fvlalfvprv neqgafwgli gglmglarl
501  ipefsfgsgs cvqpsacpaf lcgvhylyfa ivlffcsgll tltvslctap iprkhlhrlv fslrhskeer edldadeqqg sslpvqngcp esamemnepq
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