

Specifications:

Gene:	mSlc2a5
Accession:	NP_062715
Insert size:	1519bp
Concentration:	10µg at 0.2µg/µL

mGLUT5 cDNA Plasmid

Slc2a5 solute carrier family 2 (facilitated glucose transporter), member 5 [*Mus musculus* (house mouse)]

Also known as: Glut5; Slc5a; AI526984

Summary:

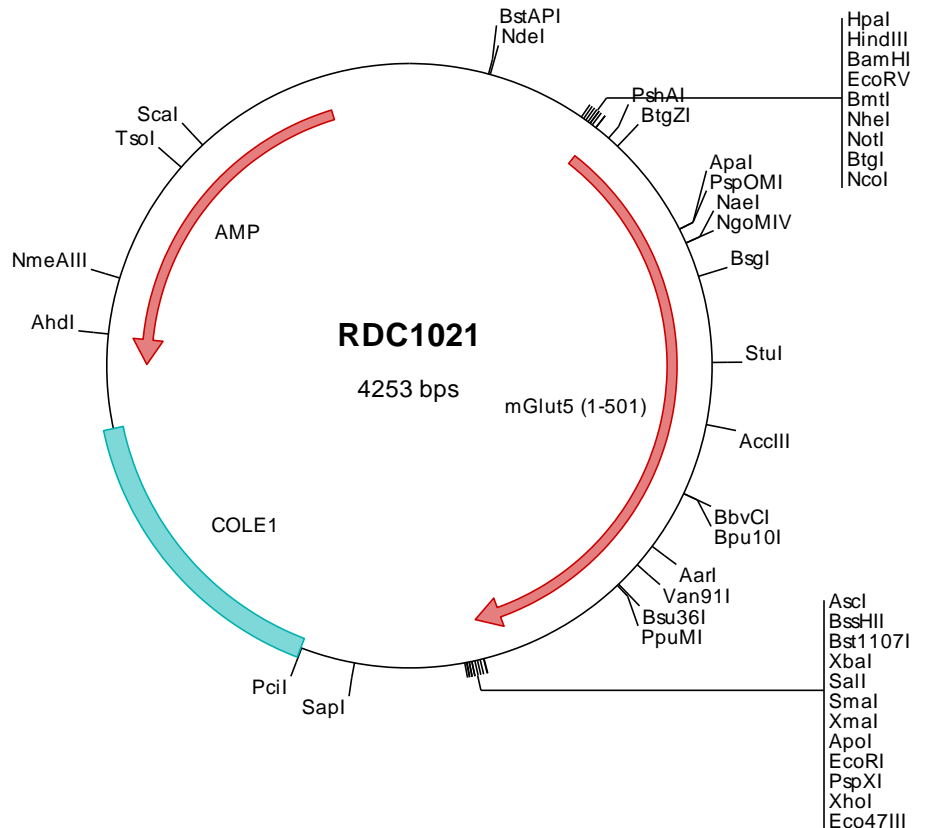
GLUT5 belongs to the facilitative glucose transport protein family that comprises 13 members. It is an integral membrane protein with 12 transmembrane domains, and is expressed at variable levels in many tissues. GLUT5 is expressed at highest levels in small intestine and at lower levels in kidney, testis, skeletal muscle and adipose tissue. GLUT5 transports fructose in intestine, testis, and other tissues. GLUT5 may play a role in fructose uptake that takes place in clear renal cell carcinoma cells which leads to malignant renal cell carcinoma progression.

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.





> RDC1021 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgccc aactgttggg aaggcgatc ggtgcccggc tcttcgctat
301 taagccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta accgacgggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
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501 ttgggcaacg ctcactgctg cctttggctc atccttccaa tatgggtaca acgtagctgc cgtcaactct ccctcagagt tcatgcagca gttttacaat
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2201 cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattggggc ctctccgct tctctgctca ctgactcgt gcgctcggtc gttcggctg
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> RDC1021 Translated Insert Sequence

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101 llfnifsil pailmgcsqi aqsfeliiis rllvgicagi ssnvpmlyg elapknlrge lgvvpqlfit vgilvaqlfg lrsllanedg wpvllglgtv
201 paglqllllp ffpespryll iqkkdeaaae ralqtlrgwk dhvlemeeir kedeakeag fisvwlkftm qslrwqlism ivlmagqqls gvnaiyyad
301 qiylsagvks ddvqvtagt gavnvfmtil tifvvelwgr rllllvgfst cliaclvita alalqntisw mpyisivevi vyvighalgp spipallite
401 iflqssrpaa ymiggsvhwl snftvglifp fiqmglypys fiifaticfl ttiyifmwvp etkgrtfiei nqiftmknkv sdvypkkee lgalphail
501 q