

Specifications:

Gene:	rGLUT4
Accession:	NP_036883
Insert size:	1542bp
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.

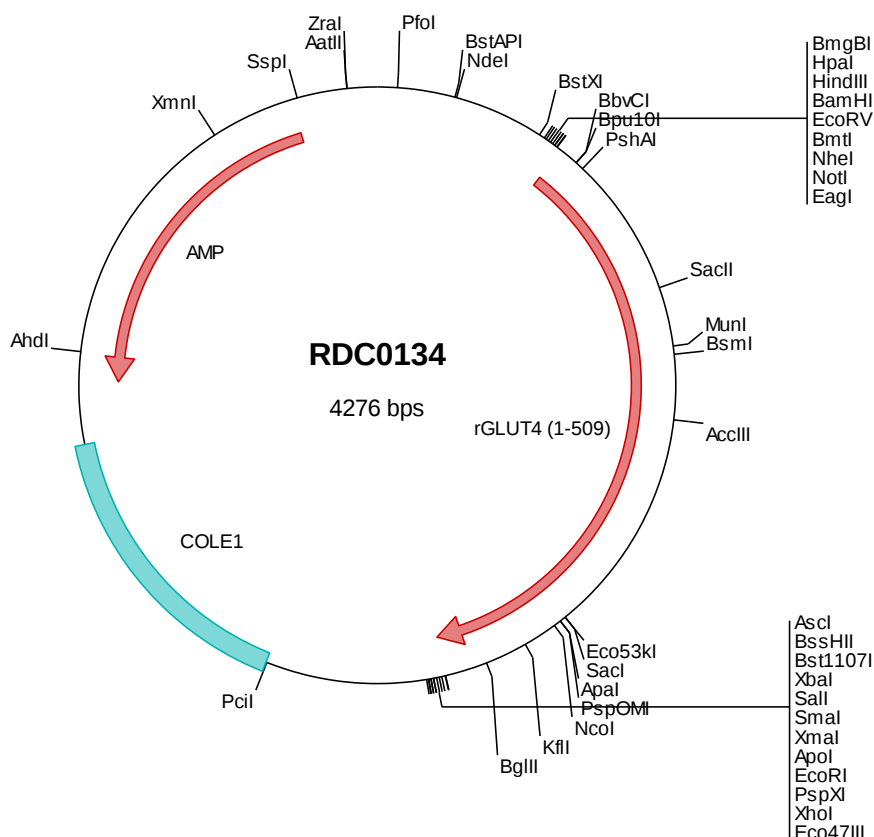
rGLUT4 cDNA Plasmid

**Slc2a4 solute carrier family 2
(facilitated glucose transporter),
member 4 [*Rattus norvegicus*]**

Also known as: GLUT4; SLC2A4

Summary:

GLUT4 is a multi-pass membrane protein belonging to the glucose transporter subfamily. It is an insulin-regulated glucose transporter responsible for glucose uptake. In the absence of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose tissue. Minutes after insulin stimulation, the protein moves to the cell surface and begins to transport glucose across the cell membrane.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0134 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
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201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt ttcccgagtc acgacgttgt aaaacgacgg ccagtgaatt
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> RDC0134 Translated Insert Sequence

```
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201  lwplllaitv lpallqllll pfcpspryl yiirnlcpa rkslrlrtgw advsdala el kdekrlere rplslqlll srthrpqlii avvlqlsqll
301  sginavfyyt tsifelagve qpayatigag vvnvtftlvs vllveragr tlhlglagm cgcailmvta llllervpsm syvsivaifg fvaffeigpg
401  pipwfivael fsqgprpaam avagfsnwtc nfivgmfgfy vadampvyvf llfavlllgf fiftflrvpe trgrtfdqis atfrtspall eqevkpsel
501  eylgpdend
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