# *m*GLUT3 VersaClone cDNA

**Catalog Number: RDC0132**

## Specifications:

| | |
|---|---|
| Gene: | *m*GLUT3 |
| Accession: | NP_035531 |
| Insert size: | 1495bp |
| 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

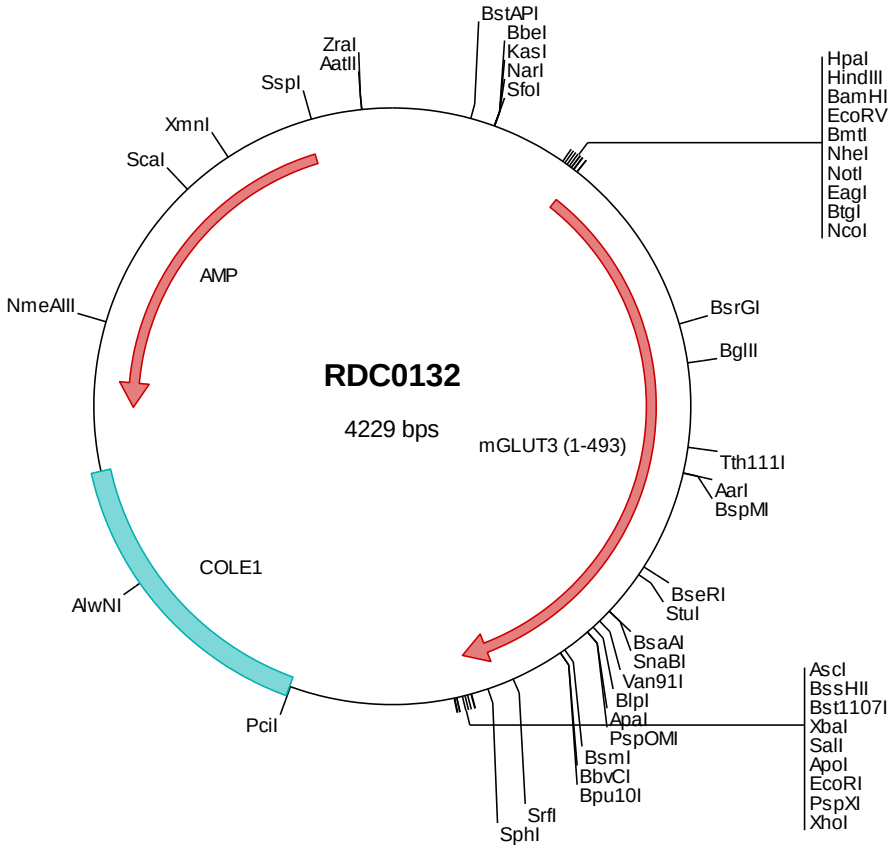
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *m*GLUT3 cDNA Plasmid

**Slc2a3 solute carrier family 2 (facilitated glucose transporter), member 3 [ *Mus musculus* ]**

**Also known as:** Glut3; C78366; Glut-3; AA408729; AL023014; AL024341; AU040424

**Summary:**
GLUT3 is a multi-pass membrane protein belonging to the glucose transporter subfamily. It is a facilitative glucose transporter responsible for constitutive or basal glucose uptake. GLUT3 is highly expressed in brain as well as being expressed in many other tissues. There is an *in vivo* interaction between podocalyxin and GLUT3 however the function of podocalyxin in stem cells and malignant cells is unclear.




FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC0132 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 atggggacaa cgaaggtgac cccatctctg gtgttcgccg tgactgttgc
 501  cacgatcggc tctttccagt ttggctacaa cactggagtc atcaatgcac ctgagacaat cctaaaggac tttcttaact acactttgga agagcggtta
 601  gaagacctac caagtgaggg actgctgact gccctctggt ccttatgtgt ggccatcttc tctgttggtg gcatgattgg ctcttttttct gttggactct
 701  ttgtcaaccg ctttggcaga cgcaactcta tgcttctagt caacttgctg gccatcattg cgggctgcct tatgggattc gccaagatag cggagtctgt
 801  tgaaatgctg atcctgggcc gcttactcat tggcattttc tgtggcctgt gcacgggctt tgtgcctatg tacattggag aggtgtctcc cactgcccttt
 901  cggggtgcat ttggcacact aaaccagctg ggcatcgttg ttgggattct ggtagctcag atctttggtt tggactttat tctgggctct gaagaactgt
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1701  aatgctcttc ccctcagctg cagcctactt aggagcctac gtttttatca tcttcgctgc cttcctcatc ttcttcctaa tcttcacctt cttcaaagtc
1801  ccggagacca aaggcaggac tttcgaggac attgcccggg ccttcgaggg gcaggcgcac tctggaaaag gccctgccgg tgtggagttg aacagcatgc
1901  agccggtcaa ggagacccct ggcaacgcct aaaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt
2001  aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta
2101  atgagtgagc taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg
2201  gggagaggcg gtttgcgtat tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa
2301  aggcggtaat acggttatcc acagaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt
2401  gctggcgttt ttccataggc tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag
2501  gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc cgaccctgcc gcttaccgga tacctgtccg cctttctccc ttcgggaagc gtggcgcttt
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2901  gagttggtag ctcttgatcc ggcaaacaaa ccaccgctgg tagcggtggt ttttttgttt gcaagcagca gattacgcgc agaaaaaaag gatctcaaga
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3201  cagcgatctg tctatttcgt tcatccatag ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacca tctggcccca gtgctgcaat
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3701  tgcttttctg tgactggtga gtactcaacc aagtcattct gagaatagtg tatgcggcga ccgagttgct cttgcccggc gtcaatacgg gataataccg
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4101  gtatttagaa aaataaacaa atagggggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa
4201  aaataggcgt atcacgaggc cctttcgtc
```

## > RDC0132 Translated Insert Sequence

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101  aiiagclmgf akiaesveml ilgrlligif cglctgfvpm yigevsptal rgafgtlnql givvgilvaq ifgldfilgs eelwpgllgl tiipailqsa
201  alpfcpespr fllinkkeed qateilqrlw gtsdvvqeiq emkdesvrms qekqvtvlel frspnyvqpl lisivlqlsq qlsginavfy ystgifkdag
301  vqepiyatig agvvntiftv vslflverag rrtlhmiglg gmavcsvfmt isllkddye amsfvcivai liyvaffeig pgpipwfiva elfsqgprpa
401  aiavagccnw tsnflvgmlf psaaaylgay vfiifaafli ffliftffkv petkgrtfed iarafegqah sgkgpagvel nsmqpvketp gna
```