

## Product datasheet for **RG202647**

### **GLUT9 (SLC2A9) (NM\_001001290) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GLUT9 (SLC2A9) (NM_001001290) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLUT9
Synonyms:	GLUT9; GLUTX; UAQTL2; URATv1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202647 representing NM\_001001290  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTCAGTAAAAGACCAGGAGAGAAGATGAAGAAAGTGATTTCAGCGAAAAAGAAATGGACTGGT  
 CCTGCTCGCTCCTCGTGGCCTCCCTCGCGGGCGCCTTCGGCTCCTCCTCTACGGCTACAACCTGTC  
 GGTGGTGAATGCCCCACCCCGTACATCAAGGCCTTTTACAATGAGTCATGGGAAAGAAGGCATGGACGT  
 CCAATAGACCCAGACACTCTGACTCTGCTCTGGTCTGTGACTGTGTCCATATTCGCCATCGGTGGACTTG  
 TGGGGACATTAATTGTGAAGATGATTGGAAAGTTCTTGGGAGGAAGCACACTTTGCTGGCCAATAATGG  
 GTTTGCAATTTCTGCTGCATTGCTGATGGCCTGCTCGCTCCAGGCAGGAGCCTTTGAAATGCTCATCGT  
 GGACGCTTCATCATGGGCATAGATGGAGGCGTCGCCCTCAGTGTGCTCCCATGTACCTCAGTGAGATCT  
 CACCCAAGGAGATCCGTGGCTCTCTGGGCAGGTGACTGCCATCTTTATCTGCATTGGCGTGTTCACTGG  
 GCAGCTTCTGGGCTGCCGAGCTGCTGGGAAAGGAGAGTACCTGGCCATACCTGTTTGGAGTGATTGTG  
 GTCCTGCGGTTGTCCAGCTGCTGAGCCTTCCCTTTCTCCCGACAGCCACGCTACCTGCTCTTGAGA  
 AGCACAACGAGGCAAGAGCTGTAAAGCCTTCCAACGTTCTTGGGTAAGCAGACGTTTCCAAGAGGT  
 AGAGGAGTCTGGCTGAGAGCCGCGTGCAGAGGAGCATCCGCTGGTGTCCGTGCTGGAGCTGCTGAGA  
 GCTCCCTACGTCGCTGGCAGGTGGTACCCTGATTGTACCATGGCCTGCTACCAGCTCTGTGGCTCA  
 ATGCAATTTGGTCTATACCAACAGCATCTTGGAAAAGCTGGATCCCTCTGGCAAAGATCCCATACGT  
 CACCTTGAGTACAGGGGGCATCGAGACTTTGGCTGCCGCTTCTCTGGTTTGGTATTGAGCACCTGGGA  
 CGGAGACCCCTCCTCATTGGTGGCTTTGGGCTCATGGGCTCTTCTTTGGGACCCCTACCATCACGCTTA  
 CCCTGCAGGACCACGCCCTGGTCCCCTACCTGAGTATCGTGGGCATCTGGCCATCATCGCCTCTTT  
 CTGCAGTGGGCCAGGTGGCATCCCGTTTCACTTGTACTGGTGAGTTCTTCCAGCAATCTCAGCGGCCGCT  
 GCCTTCATCATTGCAGGCACCGTCAACTGGCTCTCCAACCTTGTGTTGGGCTCCTCTTCCATTATTC  
 AGAAAAGTCTGGACACCTACTGTTTCTAGTCTTTGCTACAATTTGTATCACAGGTGCTATCTACCTGTA  
 TTTTGTGCTGCCTGAGACCAAAAACAGAACCTATGCAGAAATCAGCCAGGCATTTTCCAAAAGGAACAAA  
 GCATACCACAGAGAGAAAATCGACTCAGCTGCTACTGATGGTAAGATAAATGGAAAGCCT

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG202647 representing NM\_001001290  
 Red=Cloning site Green=Tags(s)

MKLSKKDRGEDEESDSAKKKLDWCSLLVASLAGAFGSSFLYGYNL SVVNAPTPYIKAFYNESWERRHGR  
 PIDPDTLLWSVTVSIFAIGGLVGTLLIVKMIGKVLGRKHTLLANNGFAISAALLMACSLQAGAFEMLIIV  
 GRFIMGIDGGVALSVLPMYLSSEISPKAIRGSLGQVTAIFICIGVFTGQLLGLPELLGKESTWPYLFVIV  
 VPAVVQLLSLPFLPDSPRYLLLEKHNEARAVKAFQTFLLGKADVSQEVVEVLAESRVQRSIRLVSVLELLR  
 APYVVRWQVVTIVTMACYQLCGLNAIWFYTNISIFGKAGIPLAKIPYVTLSTGGIETLAAVFSGLVIEHLG  
 RRPLLIGGFGLMGLFFGTLLITLTLQDHAPWVPYLSIVGILAIIASFCSGPGGIPFILTGEFFQQSQRPA  
 AFIIAGTVNWL SNFAVGLLFPFIQKSLDTCFLVFATICITGAIYLVFLPETKNRTRYAEISQAFSKRNK  
 AYPPEEKIDSAVTDGKINGRP

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001001290

**ORF Size:** 1533 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001001290.1](#), [NP\\_001001290.1](#)

**RefSeq Size:** 1885 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 56606

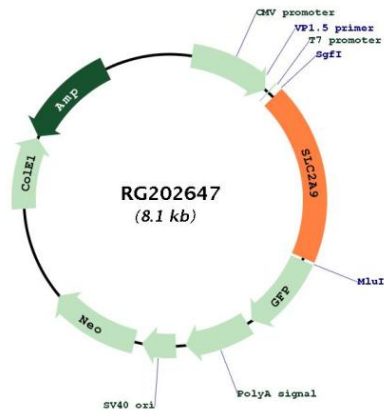
**UniProt ID:** [Q9NRM0](#)

**Cytogenetics:** 4p16.1

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the SLC2A facilitative glucose transporter family. Members of this family play a significant role in maintaining glucose homeostasis. The encoded protein may play a role in the development and survival of chondrocytes in cartilage matrices. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202647