

## Product datasheet for **RG221490**

### **SLC5A9 (NM\_001011547) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC5A9 (NM_001011547) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC5A9
Synonyms:	SGLT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG221490 representing NM\_001011547  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGGGCCTGGAGCTTCAGGGGACGGGGTCAGGACTGAGACAGCTCCACACATAGCACTGGACTCCAGAG  
TTGGTCTGCACGCCTACGACATCAGCGTGGTGGTCATCTACTTTGTCTTGGTCATTGCTGTGGGGATCTG  
GTCGTCCATCCGTGCAAGTCGAGGGACCATTGGCGGCTATTTCTGGCCGGGAGGTCCATGAGCTGGTGG  
CCAATTGGAGCATCTCTGATGTCCAGCAATGTGGGCAGTGGCTTGTTCATCGGCCTGGCTGGGACAGGGG  
CTGCCGGAGGCCCTTCCGTAGGTGGCTTCGAGTGAACATGAGGAAATCAAGGTCTGGAGGAGACAGAGG  
GATCCATCCAAGGTCACACGGGAGGACTGGGGTCAGGTCCAGGCAACCTGGCTGCTCTGGCCCTTGGC  
TGGGTCTTCGTCCCTGTGTACATCGCAGCAGGTGGTGCACAATGCCGAGTATCTGAAGAAGCGATTTG  
GGGGCCAGAGGATCCAGGTGTACATGTCTGTCTCTCATCTCTACATCTTACCAAGATCTCGAC  
TGACATCTTCTGGAGCCCTTTCATCCAGATGGCATTGGGCTGGAACCTGTACCTCTCCACAGGGATC  
CTGCTGGTGGTACTGCCGTCTACACCATTGCAGGTGGCCTCATGGCCGTGATCTACACAGATGCTCTGC  
AGACGGTATCATGGTAGGGGGAGCCCTGGTCCTCATGTTTCTGGGCTTTCAGGACGTGGGCTGGTACCC  
AGGCCTGGAGCAGCGGTACAGGCAGGCCATCCCTAATGTCACAGTCCCCAACACCACCTGTACCTCCCA  
CGGCCCGATGCTTTCACATTCTTCGGGACCCTGTGAGCGGGGACATCCCTTGGCCAGGTCTCATTTTCG  
GGCTCACAGTGTGGCCACCTGGTGTGGTGCACAGACCAGGTCAATTGTGCAGCGGTCTCTCTCGGCCAA  
GAGTCTGTCTCATGCCAAGGGAGGCTCCGTGCTGGGGGGCTACCTGAAGATCCTCCCATGTTCTTCATC  
GTCATGCCTGGCATGATCAGCCGGGCCCTGTTCCAGACGAGGTGGGCTGCGTGGACCCTGATGTCTGCC  
AAAGAATCTGTGGGGCCGAGTGGGATGTTCCAACATTGCCTACCTAAGTTGGTCATGGCCCTCATGCC  
TGTTGGTCTGCGGGGGCTGATGATTGCCGTGATCATGGCCGCTCTCATGAGCTCACTCACCTCCATCTTC  
AACAGCAGCAGCACCTGTTACCAATTGATGTGTGGCAGCGCTTCCGAGGAAGTCAACAGAGCAGGAGC  
TGATGGTGGTGGCAGAGTGTGGTGGTTCCTGGTGTTCATCAGCATCCTCTGGATCCCCATCATCCA  
AAGCTCCAACAGTGGGCAGCTCTTCGACTACATCCAGGCTGTCACCAGTTACCTGGCCCCACCCATCACC  
GCTCTCTCTGCTGGCCATCTTCTGCAAGAGGGTACAGAGCCCGGAGCTTCTGGGGCCTCGTGTGTTG  
GCCTGGGAGTGGGGCTTCTGCGTATGATCCTGGAGTTCATACCCAGCGCCAGCCTGTGGGGAGGTGGA  
CCGGAGGCCAGCAGTGTGAAGGACTTCCACTACCTGTACTTTGCAATCCTCTCTGCGGGCTCACTGCC  
ATCGTCATTGTGATTGTGACGCTCTGTACAACCTCCATCCCTGAGGAACAGCTCACACGCCTCACATGGT  
GGACTCGGAACCTCCCCCTCTCTGAGCTGGAGAAGGAGGCCACGAGAGCACACCGGAGATATCCGAGAG  
GCCAGCCGGGAGTGCCTGCAGGAGGTGGAGCGGCAGAGAAGTGCAGCCTGGGCCAGGAGCAGCCTGAA  
GCCCAAGCAGGTCTGGGGAAAGTTGCTCTGGAGCTGGTTCGTGGGCTCTCTGGAACACCGGAGCAGG  
CCCTGAGCCCAGCAGAGAAGGCTGCGCTAGAACAGAAGCTGACAAGCATTGAGGAGGAGCCACTCTGGAG  
ACATGTCTGCAACATCAATGCTGTCTTTTGTGGCCATCAACATCTTCTCTGGGGCTATTTTGGC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221490 representing NM\_001011547  
 Red=Cloning site Green=Tags(s)

MGPGASGDGVRTETAPHIALDSRVGLHAYDISVVIYFVFIIVAVGIWSSIRASRGTIGGYFLAGRSMSSW  
 PIGASLMSSNVGSGLFIGLAGTGAAGGLAVGGFEWNMRKSRSGGDRGIHPRSHGRTGVRSQATWLLLALG  
 WVFVPIVIAAGVVTMPQYLKRRFGGQRIQVYMSVLSLILYIFTKISTDIFSGALFIQMALGWNLYLSTGI  
 LLVVTAVYTIAGGLMAVIYTDALQTVIMVGGALVLMFLGFQDVGWYPGLEQRYRQAIPNVTVPNTTCHLP  
 RPDAPHILRDPVSGDIPWPGLIFGLTVLATWCWCTDQVIQVRSLSAKSLSHAKGGSVLGGYLKILPMFFI  
 VMPGMISRALFPDEVGCVDPDVCQRICGARVGCNSNIAYPKLVLMALMPVGLRGLMIAVIMAALMSSLSIF  
 NSSSTLFTIDVWQRFRRKSTEQELMVVGRVVFVFLVVISILWIPIIQSSNSGQLFDYIQAVTSYLAPPIT  
 ALFLLAIFCKRVTEPGAFWGLVFLGVLLRMILEFSYPAPACGEVDRRPAVLKDFHYLYFAILLCGLTA  
 IVIVIVSLCTTPIPEEQLTRLTWWRNCPLESELEKEAHESTPEISERPAGECPAGGGAAENSSLGQEQPE  
 APSRSWGKLLWSWFCGLSGTPEQALSPA EKAAL EQKLSIEEPLWRHVCNINAVLLLA INIFLWGYFA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

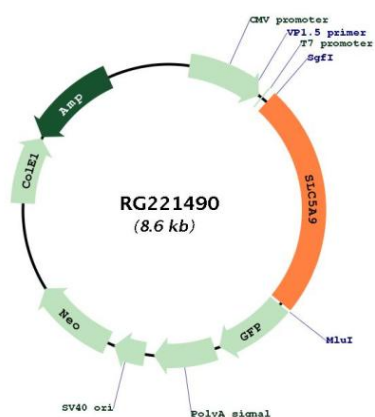


ACCN: NM\_001011547

ORF Size: 2097 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001011547.1</a> , <a href="#">NP_001011547.1</a>
<b>RefSeq Size:</b>	3227 bp
<b>RefSeq ORF:</b>	2046 bp
<b>Locus ID:</b>	200010
<b>UniProt ID:</b>	<a href="#">Q2M3M2</a>
<b>Cytogenetics:</b>	1p33
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	Involved in sodium-dependent transport of D-mannose, D-glucose and D-fructose. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG221490