

## Product datasheet for **MG209658**

### **Gclc (NM\_010295) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gclc (NM_010295) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gclc
Synonyms:	D9Wsu168e; Ggcs-hs; GLCL-H; Gclc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209658 representing NM\_010295  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGGGGCTGCTGTCCAAGGCTCGCCACTGAGCTGGGAAGAGACCAGCGCCACGCCACCAGTGC  
 GGACGGCATCCTCCAGTTCCTGCAGATCTACCACGCAGTCAAGGACCGGCACAAGGACGTGCTCAAGT  
 GGGTGACGAGGTGGAGTACATGTTGGTGTCTTCGATCATGAAAAAGGAAAGTCCAGTTGTTACTGAAT  
 GGAGGCGATGTTCTTGAGACTCTGCAGGAGAAGGGGAGAGGACAAACCCCAACCATCCGACCCTTGGA  
 GACCAGAGTATGGGAGTTACATGATCGAAGGAACGCCTGGCCAGCCCTACGGAGGAACGATGTCTGAGTT  
 CAACACTGTGGAGGCAATATGAGGAAACGCCGGAAGGAGGCTACTTCTGTACTAGGAGAGCATCAGGCT  
 CTCTGCACCATCACTTCATCCCCAGACTAGGCTGTCTGGATTACACTGCCAGAACACAGACCCCAACC  
 CAGAGGAAGGAGGCGCATCAAAGTCCCTCTTCCAGATGAAGCCATAAACAAGCACCCCGCTTCGG  
 TACTCTAAACAAGAAACATCCGGCATCGGAGAGGAGAAAAGTTGTCATCAATGTGCCAATATTCAAGGAC  
 AAGAATACACCATCTCCATTTGTAGAAACATTTCCAGAAGATGCGGAGGCATCAAAGGCTTCTCAGCCAG  
 ACCATATCTACATGGATGCCATGGGATTCGGGATGGGCAACTGCTGTCTCCAGGTGACATTTCAAGCCTG  
 CAGCATATCTGAGGCAAGATACCTTTATGATCAGCTGGCCACTATCTGCCAATTGTTATGGCTTTGAGT  
 GCTGCATCTCCATTTACCGAGGCTACGTGTCAGACATTGATTGTGCTGGGGAGTGATTCTGCCTCTG  
 TAGATGATAGAACACGGGAGGAGAGAGGCTGGAGCCTCTGAAGAACAATCGCTTTAGGATCAGTAAGTC  
 TCGGATGACTCAATAGATAGCTACCTGTCTAAGTGTGGGAGAAAGTACAATGACATCGACCTGACCATC  
 GATAAAGGAGATCTACGAGCAGCTCCTGGAGGAAGGCATCGATCATCTTCTGGCACAGCAGTTGCTCATC  
 TCTTTATTAGAGACCCACTCACCTTTTTGAAGAGAAAATACACCTGGATGATGCCAAGTCTGACCA  
 TTTTGAGAATATTCACTCTACAACTGGCAGACAATGAGGTTTAAAGCCTCCTCCTCAAACCTCAGATATT  
 GGATGGAGAGTAGAGTTCGACCAATGGAGGTGCAATTAACAGACTTTGAGAACTCTGCCTATGTGGTAT  
 TCGTGGTACTGCTCACTAGGGTATCCTCTCATACAAACCTAGACTTCTCATTCCGCTGTCCAAGTTGA  
 CGAGAACATGAAAGTGGCCAGAAAGCGAGATGCTGTCTTGAGGGGATGTTTTATTTAGGAAAGACATC  
 TGCAAAGCGGCAACGCTGTGGTGGACGGTGCAGCAAGGCCAGAGCAGCTCTGAGCCAGCTGCAGAGG  
 AGTACACCCTGATGAGCATAGACACCATCATCAATGGGAAGGAAGGGTATTTCTGGACTCATCCCAT  
 TCTGAACCTCTATCTGGAGAACATGGAAGTTGATGTGGACACCCGATGCAGTATTCTGAACCTAAAG  
 CTAATTAAGAAGAGAGCATCTGGAGAATAATGACTGTTGCCAGGTGGATGAGAGAGTTCATTGCAAAAC  
 ATCCTGACTACAAGCAAGACAGTGAATAACTGATGAAATCAACTATAGCCTCATTGGAAGTGAACCA  
 AATTGCAGATGAGCTGTGTGAATGTCCAGAGTACTTGGATCAGGATTTAGAAAAGCGAAGTACAGTGG  
 GATAAAAGCGACCTTCAGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209658 representing NM\_010295  
 Red=Cloning site Green=Tags(s)

MGLLSQGSPLSWEETQRHADHVRHRRHGILQFLQIYHAVKDRHKDVLKVGDEVEYMLVSFDHENRKVQLLLN  
 GGDVLETLQEKGERTNPNHPTLWRPEYGSYMIETPGQPYGGTMSEFNTVEANMRKRKEATSVLGEHQ  
 LCTITSPRLGCPGFTLPEHRPNPEEGGASKSLFFPDEAINKHPRFGTLTRNIRHRRGEKVVINVP  
 IFKDKNTPSPFVETFPEDAASKASQPDHIYMDAMFGMGNCLQVTFQACSISEARYLYDQLATICPIVMALS  
 AASPFYRGYVSDIDCRWGVISASVDDRTREERGLEPLKNNRFRIKSRYSIDSYLSKCGEYNDIDLT  
 I DKEIYEQLLEEGIDHLLAQHVAHLFIRDPLTLFEEKIHLDDANESDHFENIQSTNWTMRFKPPPPNSDI  
 GWRVEFRPMEVQLTDFENSAYVVFVLLTRVILSYKLDLFIPLSKVDENMKVAQKRDAVLQGMFYFRKDI  
 CKGGNAVVDGCSKAQSSSEPAEEYTLMSIDTIINGKEGVFPGLIPILNSYLENMEVDVDRCSILNLYL  
 L IKKRASGELMTVARWMREFIANHPDYKQDSVITDEINYSLIWKCNIADDELCEPELLGSGFRKAKYS  
 GKSDPSA

**TRTRPLE** – GFP Tag – V



<b>OTI Disclaimer:</b>	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>
<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_010295.1</a> , <a href="#">NP_034425.1</a>
<b>RefSeq Size:</b>	2314 bp
<b>RefSeq ORF:</b>	1914 bp
<b>Locus ID:</b>	14629
<b>UniProt ID:</b>	<a href="#">P97494</a>
<b>Cytogenetics:</b>	9 43.36 cM