

## Product datasheet for **RG223409**

### **Glyt1 (SLC6A9) (NM\_201649) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Glyt1 (SLC6A9) (NM_201649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glyt1
Synonyms:	GCENSG; GLYT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG223409 representing NM\_201649  
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGCGCGCC

ATGAGCGGCGGAGACACGCGGGCTGCGATCGCTCGCCCCAGGATGGCCGCGGCTCATGGACCTGTGGCCC  
CCTCTTCCCAGAACAGGTGACGCTTCTCCCTGTTTCAGAGATCCTTCTTCTGCCACCCCTTTCTGGAGC  
CACTCCCTCTACTTCCCTAGCAGAGTCTGTCTCAAAGTCTGGCATGGGGCTACAACCTCTGGTCTCCTT  
CCCCAACTCATGGCCAGCACTCCCTAGCCATGGCCAGAAATGGTGTGTGCCAGCGAGGCCACCAAGA  
GGGACCAGAACCTCAAACGGGGCAACTGGGGCAACCAGATCGAGTTTGTACTGACGAGCGTGGGCTATGC  
CGTGGGCTGGGCAATGTCTGGCGCTTCCCATACCTCTGCTATCGCAACGGGGAGGGCGCCTTCATGTT  
CCCTACTTCATCATGCTCATCTTCTGCGGGATCCCCCTCTTTCATGGAGCTCTCCTTCGGCCAGTTT  
CAAGCCAGGGGTGCTGGGGTCTGGAGGATCAGCCCCATGTTCAAAGGAGTGGGCTATGGTATGATGGT  
GGTGTCCACCTACATCGGCATCTACTACAATGTGGTTCATCTGCATCGCCTTCTACTACTTCTTCTCGTCC  
ATGACGCACGTGCTGCCCTGGGCTACTGCAATAACCCCTGGAACACGCATGACTGCGCCGGTGTACTGG  
ACGCTTCAACCTCACCATGGCTCTCGGCCAGCCGCTTGGCCAGCAACCTCTCCACCTGCTCAACCA  
CAGCTCCAGAGGACCAGCCCCAGCGAGGAGTACTGGAGGCTGTACGTGCTGAAGCTGTCAGATGACATT  
GGGAACCTTGGGAGGTGCGGCTGCCCTCCTTGGCTGCCTCGGTGTCTCCTGGTTGGTCTTCTCCT  
GCCTCATCCGAGGGGTCAAGTCTCAGGAAAAGTGGTGTACTTCACGGCCACGTTCCCTACGTGGTGT  
GACCATTTCTGTTGTCCGCGAGTGACCCTGGAGGGAGCCTTTCACGGCATCATGTAACCTAACCCCG  
CAGTGGGACAAGATCCTGGAGGCAAGGTGTGGGTGATGCTGCCTCCAGATCTTCTACTACTGGGT  
CGCGTGGGAGGCCTCATCACCATGGCTTCTACAACAAGTCCACAATAACTGTTACCGGCACAGTGT  
CATCATCAGCATACCAACTGTGCCACCAGCGTCTATGCTGGCTTCGTCATCTTCTCCATCCTCGGCTTC  
ATGGCCAATCACCTGGGCGTGGATGTGTCCCGTGTGGCAGACCAGGCCCTGGCCTGGCCTTCGTGGCTT  
ACCCCGAGGCCCTCACACTACTTCCCATCTCCCGCTGTGGTCTCTGCTCTTCTTCTTTCATGCTTATCCT  
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GAGTGGATCCTGCAGAAAAGACCTATGTGACCTTGGGCGTGGCTGTGGCTGGCTTCTGCTGGGCATCC  
CCCTACCAGCCAGGCAGGCATCTATTGGCTGCTGCTGATGGACAATATGCGGCCAGCTTCTCCTTGGT  
GGTCATCTCCTGCATCATGTGTGTGGCCATCATGTACATCTACGGGCACCGGAATACTTCCAGGACATC  
CAGATGATGCTGGGATCCACCAACCCCTTTCTTTCAGATCTGCTGGCGCTTCGTCTCTCCCGCCATCA  
TCTTCTTTATTCTAGTTTCACTGTGATCCAGTACCAGCCGATCACCTACAACCACTACCAGTACCAGG  
CTGGGCGGTGGCCATTGGCTTCTCATGGCTCTGTCTCCGTCCTCTGCATCCCCCTCTACGCCATGTT  
CGGCTCTGCCGCACAGACGGGGACACCCTCCTCCAGCGTTTAAAAATGCCACAAAGCAAGCAGAGACT  
GGGGCCCTGCCCTCCTGGAGCACCGGACAGGGCGCTACGCCCCACCATAGCCCCCTCTCCTGAGGACGG  
CTTCGAGGTCCAGCCACTGCACCCGACAAGGCGCAGATCCCCATTGTGGGCAGTAATGGCTCCAGCCGC  
CTCCAGGACTCCCGGATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG223409 representing NM\_201649  
 Red=Cloning site Green=Tags(s)

```

MSGGDTRAAIARPRMAAAHGVPVAPSSPEQVTLTPVQRSFFLPPFSGATPSTSLAESVLKVVHGYNSGLL
PQLMAQHSLAMAQNGAVPSEATKRDQNLKRGNWGNQIEFVLTSVGAVGLGNVWRFYLYCYRNGGGAFMF
PYFIMLIFCGIPLFFMELSFQGFASQGLGVWRI SPMFKGVGYGMMVSTYIGIYNNVICIAFYFFSS
MTHVLPWAYCNPWNTHDCAGVLDASNL TNGSRPAALPSNL SHLLNHSLQRTSPSEEWRLYVVLKLSDDI
GNFGEVRLPLLGLGVSWLVVFLCLIRGVKSSGKVVYFTATFPYVVLTLFVIRGVTLEGAFDGMYYLTP
QWDKILEAKVWGDAASQIFYSLGCWGLITMASYNKFHNNCYRDSV IISITNCATSVYAGFVIFSI LGF
MANHLGVDVSRVADHGPGLAFVAYPEALTLLPI SPLWSLLFFMLILLGLGTQFCLLETLVTAIVDEVGN
EWILQKKTYVTLGVAVAGFLLGIPLTSQAGIYWLLMDNYAASFSLVVISICIMCVAIMYIYGHRYFQDI
QMMLGFPPLFFQICWRFVSPAIIFFILVFTVIQYQPITYNHQYPGWAVAIGFLMALSSVLCIPLYAMF
RLCRTDGD TLLQRLKNATKPSRDWGPALLEHRTGRYAPT IAPSPEDGFVQPLHPDKAQIPIVGSNGSSR
LQDSRI
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** AscI-MluI

**Cloning Scheme:**



**ACCN:** NM\_201649

**ORF Size:** 2118 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\\_201649.4](#)

**RefSeq Size:** 3375 bp

**RefSeq ORF:** 2121 bp

**Locus ID:** 6536

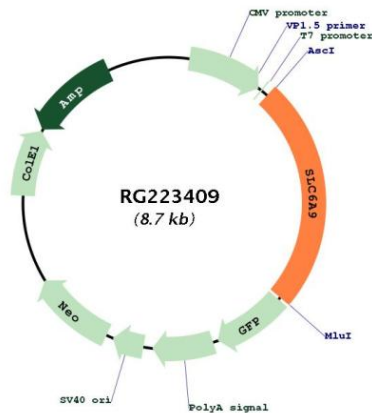
**UniProt ID:** [P48067](#)

**Cytogenetics:** 1p34.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The amino acid glycine acts as an inhibitory neurotransmitter in the central nervous system. The protein encoded by this gene is one of two transporters that stop glycine signaling by removing it from the synaptic cleft. [provided by RefSeq, Jun 2016]

**Product images:**



Circular map for RG223409