

## Product datasheet for **RG213976**

### **Glyt1 (SLC6A9) (NM\_001024845) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Glyt1 (SLC6A9) (NM_001024845) 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:**

>RG213976 representing NM\_001024845  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTAGGAAAAGGTGCCAAAGGGATGCTGAATGGTGCTGTGCCAGCGAGGCCACCAAGAGGGACCAGA  
 ACCTCAAACGGGGCAACTGGGGCAACCAGATCGAGTTTGTACTGACGAGCGTGGCTATGCCGTGGGCCT  
 GGGCAATGTCTGGCGCTTCCCATACCTCTGCTATCGCAACGGGGAGGCGCCTTCATGTTCCCTACTTTC  
 ATCATGCTCATCTTCTGCGGGATCCCCCTTCTTCTCATGGAGCTCTCCTTCGGCCAGTTTGAAGCCAGG  
 GGTGCCTGGGGTCTGGAGGATCAGCCCCATGTTCAAAGGAGTGGGCTATGGTATGATGGTGGTCCAC  
 CTACATCGGCATCTACTACAATGTGGTCATCTGCATCGCCTTCTACTACTTCTTCTCGTCCATGACGCAC  
 GTGCTGCCCTGGGCTACTGCAATAACCCCTGGAACACGCATGACTGCGCCGGTGTACTGGACGCCTCCA  
 ACCTACCAATGGCTCTCGGCCAGCCGCTTGGCCAGCAACCTCTCCACCTGCTCAACCACAGCCTCCA  
 GAGGACCAGCCCAGCGAGGAGTACTGGAGGCTGTACGTCTGAAGCTGTGAGATGACATTGGGAATTT  
 GGGGAGGTGCGGCTGCCCTCCTTGGCTGCCTCGGTGTCTCCTGGTTGGTCGTCTTCTCTGCCTCATCC  
 GAGGGTCAAGTCTTACGGGAAAGTGGTGTACTTACGGCCACGTTCCCTTACGTGGTGTGACCATTCT  
 GTTTGTCCCGGAGTGACCCTGGAGGGAGCCTTTGACGGCATCATGTACTACCTAACCCCGAGTGGGAC  
 AAGATCCTGGAGGCCAAGGTGTGGGGTGTGCTGCCTCCAGATCTTCTACTCACTGGGCTGCGCGTGGG  
 GAGGCCTCATCACCATGGCTTCTACAACAAGTCCACAATAACTGTTACCGGGACAGTGTATCATCATCAG  
 CATCACCACCTGTGCCACCAGCGTCTATGCTGGCTTGTCTCATCTTCTCCATCCTCGGCTTATGGCCAAT  
 CACCTGGGCGTGGATGTGTCCGCTGTGGCAGACCACGGCCCTGGCCTGGCCTTCTGCTTACCCCGAGG  
 CCCTCACACTACTTCCCATCTCCCGCTGTGGTCTCTGCTCTTCTTCTCATGCTTATCCTGCTGGGGT  
 GGGCACTCAGTTCTGCCTCCTGGAGACGCTGGTACAGCCATTGGATGAGGTGGGGAATGAGTGGATC  
 CTGCAGAAAAAGACCTATGTGACCTTGGGCGTGGCTGTGGCTGGCTTCTGCTGGGCATCCCCCTACCA  
 GCCAGGCAGGCATCTATTGGCTGCTGCTGATGGACAACCTATGCGGCCAGCTTCTCCTTGGTGGTATCTC  
 CTGCATCATGTGTGTGGCCATCATGTACATCTACGGGCACCGAACTACTTCCAGGACATCCAGATGATG  
 CTGGGATTCCCACCACCCTCTTCTTTCAGATCTGCTGGCGTTCGTCTCTCCCGCCATCATCTTCTTTA  
 TTCTAGTTTTCACTGTGATCCAGTACCAGCCGATCACCTACAACCACTACCAGTACCAGGCTGGGCCGT  
 GGCCATTGGCTTCTCATGGCTCTGCTCCTCGTCTCTGCATCCCCCTTACGCCATGTTCCGGCTCTGC  
 CGCACAGACGGGACACCCTCCTCCAGCGTTTAAAAATGCCACAAAGCCAAGCAGAGACTGGGGCCCTG  
 CCCTCCTGGAGCACCGGACAGGGCGCTACGCCCCACCATAGCCCCCTCTCCTGAGGACGGCTTCGAGGT  
 CCAGCCACTGCACCCGACAAGGCGCAGATCCCCATTGTGGGCAGTAATGGCTCCAGCCGCTCCAGGAC  
 TCCCGGATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213976 representing NM\_001024845  
 Red=Cloning site Green=Tags(s)

MVKGKAGMLNGAVPSEATKRDQNLKRGWGNQIEFVLT SVGYAVGLGNVWRFYLYCYRNGGAFMFPYF  
 IMLIFCGIPLFFMELSFQQFASQGLGVWRISPMFKGVGYGMMVSTYIGIYYNVVICIAFYFFFSSMTH  
 VLPWAYCNPWNTHDCAGVLDASNLNNGSRPAALPSNLSHLLNHSRQRTSPSEEWRLYVLKLSDDIGNF  
 GEVRLPLLGLGVSFLVFLCLIRGVKSSGKVVYFATFPYVVL TILFVRGVTLEGAFDGMYYLTPQWD  
 KILEAKVWGDAASQIFYSLGCWGLITMASYNKFHNNCYRDSVVISITNCATS VYAGFVIF SILGFMAN  
 HLGVDVSRVADHGPGLAFVAYPEALTLPLISPLWSLLFFMLILLGLGTQFCLETLVTAIVDEVNEWI  
 LQKTTYVTLGVAVAGFLLGIPLTSQAGIYWLLMDNYAASFSLVVISICIMVAIMYIYGHRYFQDIQMM  
 LGFPPPLFFQICWRFVSPAIIFFILVFTVIQYQPIYNYHYQYPGWAVAIGFLMALSSVLCIPLYAMFRLC  
 RTDGD TLLQRLKNATKPSRDWGPALLEHRTGRYAPTIAPSPEDGFEVQPLHPDKAQIPIVGSNGSSRLQD  
 SRI

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_001024845

ORF Size: 1899 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\\_001024845.3](#)

RefSeq Size: 3206 bp

RefSeq ORF: 1902 bp

Locus ID: 6536

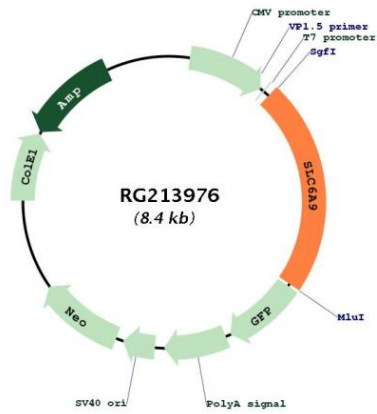
UniProt ID: [P48067](#)

**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 RG213976