

## Product datasheet for **RC220702**

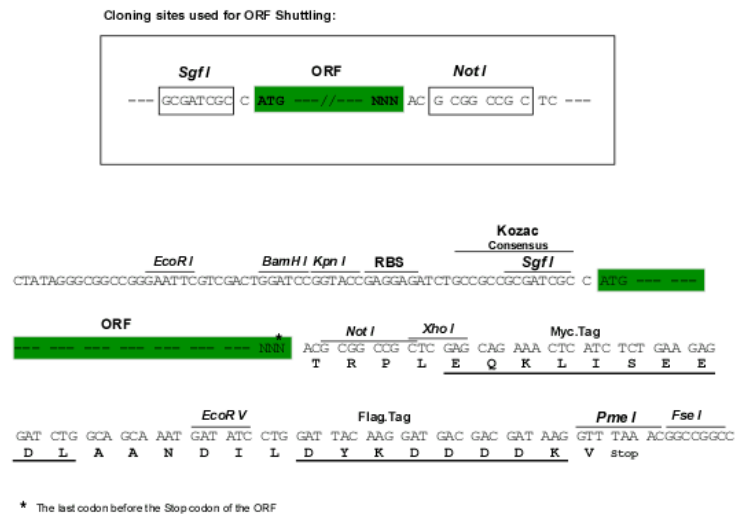
### Glyt2 (SLC6A5) (NM\_004211) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glyt2 (SLC6A5) (NM_004211) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glyt2
Synonyms:	GLYT-2; GLYT2; HKPX3; NET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC220702 representing NM_004211            Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC            GCC<b>CGATCGC</b></p> <p>ATGGATTGCAGTGCTCCCAAGGAAATGAATAAACTGCCAGCCAACAGCCCGGAGGCGGCGGCGCGCAGG            GCCACCCGGATGGCCCATGCGCTCCAGGACGAGCCGGAGCAGGAGCTTCCGCGGCTGCCGCCCGCC            GCCGCCACGTGTGCCAGGTCCGCTTCCACGGCGCCCAAACCTTCCAGTCAGCGGACGCGCAGCCTGC            GAGGCTGAGCGGCCAGGAGTGGGTCTTGCAAACCTCAGTAGCCCGCGGGCGCAGGCGGCCTCTGCAGCTC            TCGGGACTTGAGAGAGGCGCAAGGCGCGCAGGCCTCGCCCCCTCCGGGAGCTCCGGGCCCGCA</p> <p><b>ACGCGT</b>ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT            ACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;RC220702 representing NM_004211            Red=Cloning site Green=Tags(s)</p> <p>MDCSAPKEMNKL PANSPEAAAAQGHDPGCPARTSPEQELPAAAAPPPRVPRASSTGAQTFQSADARAC            EAERPGVGSKLSSPRAQAASAALRDLREAQGAQASPPPGSSGPG</p> <p><b>TR</b>TRPLE<b>QKL</b>ISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6280_g08.zip">https://cdn.origene.com/chromatograms/mk6280_g08.zip</a>
Restriction Sites:	SgfI-NotI


[View online »](#)

Cloning Scheme:



ACCN: NM\_004211

ORF Size: 346 bp

OTI Disclaimer: 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

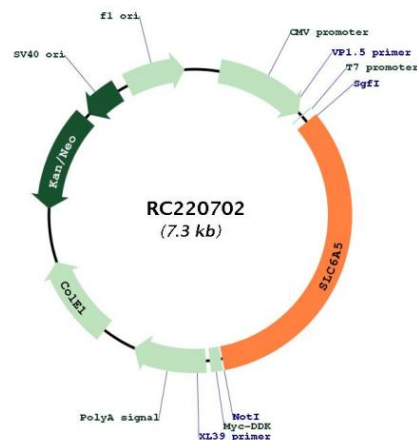
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

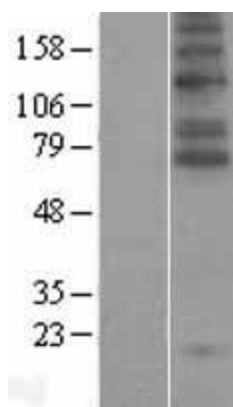
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq Size:</b>	2729 bp
<b>RefSeq ORF:</b>	2394 bp
<b>Locus ID:</b>	9152
<b>UniProt ID:</b>	<a href="#">Q9Y345</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	87.6 kDa
<b>Gene Summary:</b>	<p>This gene encodes a sodium- and chloride-dependent glycine neurotransmitter transporter. This integral membrane glycoprotein is responsible for the clearance of extracellular glycine during glycine-mediated neurotransmission. This protein is found in glycinergic axons and maintains a high presynaptic pool of neurotransmitter at glycinergic synapses. Mutations in this gene cause hyperekplexia; a heterogenous neurological disorder characterized by exaggerated startle responses and neonatal apnea. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]</p>

## Product images:



Circular map for RC220702



Western blot validation of overexpression lysate (Cat# [LY418139]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220702 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).