

Product datasheet for **SC303452**

Glyt2 (SLC6A5) (NM_004211) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glyt2 (SLC6A5) (NM_004211) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glyt2
Synonyms:	GLYT-2; GLYT2; HKPX3; NET1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004211 edited
CCTCTCCTGCCTGAGCCAAACCCAGTCTTGTCAATAGCGGGTTTCACCCTCCACCAGTTC
AGTCTGTTGCCTGTGTCAGACATGGATTGCAGTGTCTCCAAGGAAATGAATAAACTGCCA
GCCAACAGCCCGGAGGCGGCGGCGCAGGGCCACCCGATGGCCCATGCGCTCCCAGG
ACGAGCCCGGAGCAGGAGCTTCCCGGGCTGCCGCCCGCCGCCACGTGTGCCAGG
TCCGCTTCCACCGGCCCAAACCTTCCAGTCAGCGGACGCGCGAGCCTGCGAGGCTGAG
CGGCCAGGAGTGGGTCTTGCAAACCTCAGTAGCCCGGGCGCAGGCGGCCTCTGCAGCT
CTGCGGGACTTGAGAGAGGCGCAAGGCGCGCAGGCCTCGCCCCCTCCCGGAGCTCCGGG
CCCGGCAACGCGTTGCACTGTAAGATCCCTTCTCTGCGAGGCCCGGAGGGGGATGCGAAC
GTGAGTGTGGCAAGGGCACCTGGAGCGGAACAATACCCTGTTGTGGGCTGGGTGAAC
ATGAGCCAGAGCACCGTGGTGTGGGCACGGATGGAATCACGTCCGTGCTCCCGGCAGC
GTGGCCACCGTTGCCACCAGGAGGACGAGCAAGGGGATGAGAATAAGGCCCGAGGGAAC
TGGTCCAGCAAACCTGGACTTCATCCTGTCCATGGTGGGTACGCAGTGGGGCTGGCAAT
GTCTGGAGGTTTCCCTACCTGGCCTTCCAGAACGGGGAGGTGCTTTCCTCATCCCTTAC
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TTTGCCAGCCAGGACCAGTGTCTGTGGAAGGCCATCCAGCTCTACAAGGCTGTGGC
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CCTTGGAAATACACCAGAAATGCAAAGATAAAACCAAACCTTTTATTAGATTCCTGTGTTATC
AGTGACCATCCAAAAATACAGATCAAGAAGTTCGACTTCTGCATGACCGCTTATCCCAAC
GTGACAATGGTTAATTTACCAGCCAGGCCAATAAGACATTTGTCAGTGGAAAGTGAAGAG
TACTTCAAGTACTTTGTGCTGAAGATTTCTGCAGGGATTGAATATCCTGGCGAGATCAGG
TGGCCACTAGCTCTCGCCTTCTCCTGGCTTGGGTCAATGTGTATGCATCGTTGGCTAAA
GGAATCAAGACTTCAGGAAAAGTGGTGTACTTACCGGCCACGTTCCCGTATGTCGTAATC
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ATCACACCAAGTGGGAGAACTCACGGATGCCACGGTGTGAAAGATGCTGCCACTCAG
ATTTTCTTCTTTATCTGCTGCATGGGGAGGCCTGATCACTCTCTTCTTACAACAAA
TTCCACAACAACCTGCTACAGGGACTCTAATTGTACCTGCACCAACAGTGCCACAAGC
ATCTTTGCCGGCTTCGTCATCTTCTCCGTTATCGGCTTCATGGCCAATGAACGCAAAGTC
AACATTGAGAATGTGGCAGACCAAGGGCCAGGCATTGCATTTGTGGTTTACCCGGAAGCC
TTAACCAGGCTGCCTCTCTCCTGTTCTGGGCCATCATTTTTTCTGATGCTCCTCACT
CTTGGACTTGACACTATGTTTGCCACCATCGAGACCATAGTGACCTCCATCTCAGACGAG
TTTCCCAAGTACCTACGCACACACAAGCCAGTGTTTACTCTGGGCTGCTGCATTTGTTTC
TTCATCATGGGTTTTCCAATGATCACTCAGGGTGGAAATTTACATGTTTCAGCTTGTGGAC
ACCTATGCTGCCTCCTATGCCCTTGTATCATTGCCATTTTTGAGCTCGTGGGGATCTCT
TATGTGTATGGCTTGCAAAGATTCTGTGAAGATATAGAGATGATGATTGGATTCCAGCCT
AACATCTTCTGAAAAGTCTGCTGGGCATTTGTAACCCCAACATTTTAACTTTATCCTT
TGCTTCAGCTTTTACCAGTGGGAACCCATGACCTATGGCTTTACCGCTATCCTAACTGG
TCCATGGTGTGCTCGGATGGCTAATGCTCGCCTGTTCCGTCATCTGGATCCCAATTAATGTT
GTGATAAAAATGCATCTGGCCCCTGGAAGATTTATTGAGAGGCTGAAGTTGGTGTGCTCG
CCACAGCCGACTGGGGCCATTCTTAGCTCAACACCGCGGGGAGCGTTACAAGAACATG
ATCGACCCCTTGGGAACCTTCTCCTGGGACTCAAACCTGCCAGTGAAGGATTTGGAACCTG
GGCACTCAGTGTAGTCCAGTGGTGTGGGATGGTCCA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004211 unedited NAACGTTGCAATTTGTATACGACTCACTATAGGCGGCNCGCANNATTNCGCCCTTCACT CTCCTGCCTGAGCCAAACCCAGTCTTGTCAATAGCGGGTTTACCCCTCCACCAGTTCACT CTGTTGCCTGTGTGACACATGGATTGCAGTGTCTCCAAGGAAATGAATAAACTGCCAGCC AACAGCCCGGAGGCGGCGGCGCAGGGCCACCCGGATGGCCCATGCGCTCCAGGACG AGCCCGGAGCAGGAGCTTCCCGGGCTGCCGCCCGCCGCCACGTGTGCCAGGTCC GCTTCCACCGGCGCCAAACTTTCCAGTCAGCGACGCGGAGCCTGCGAGGCTGAGCGG CCAGGAGTGGGGTCTTGCAAACTCAGTAGCCCGGGCGCAGGCGCCTCTGCAGCTCTG CGGACTTGAGAGAGGCGCAAGGCGCGCAGGCCTCGCCCTCCCGGGAGCTCCGGGCC GGCAACGCGTTGCACTGTAAATCCCTTCTCTGCGAGGCCGGAGGGGATGCGAACGTG AGTGTGGCAAGGGCACCTGGAGCGGAACAATACCCCTGTTGTGGGCTGGGTGAACATG AGCCAGACACCGTGGTGTGGCACGGATGGAATCACGTCCGTGCTCCCGGCAGCGTG GCCACCGTTGCCACCCNAGGAGACGAGCAAGNGATGAGAAATAAGCCCGAGGAACTGG TCCAGCAAACCTGACTTCCATCTGTCCATGGTGGGTACGCAGTGGGGCTGGGCAATGTC TTGGAGTTTTCTACCTGGCCTTTCAGACGGGGGAGGTGCTTTCCTCATCCCTTCACTG ATGATGCTGGCTCTGGCTGGATTACCCCTTCTTCTTGAAGGTGTCCTGGGCCCC
Restriction Sites:	Please inquire
ACCN:	NM_004211
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_004211.1, NP_004202.1</u>
RefSeq Size:	2729 bp
RefSeq ORF:	2394 bp
Locus ID:	9152
UniProt ID:	<u>Q9Y345</u>
Cytogenetics:	11p15.1

Protein Families: Transmembrane

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).