

Product datasheet for SC117052

GUCY2C (NM_004963) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GUCY2C (NM_004963) Human Untagged Clone
Tag:	Tag Free
Symbol:	GUCY2C
Synonyms:	DIAR6; GC-C; GUC2C; MECIL; MUCIL; STAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004963 edited
GCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAGA
ATTTTGTAAATACGACTCACTATAGGGCGCCGCAATTCGGCACCAGCTGGATTCCTGC
CTCCCTAGGAGCCCAACAGAGCAAAGCAAGTGGGCACAAGGAGTATGGTTCTAACGTGAT
TGGGGTCATGAAGACGTTGCTGTTGGACTTGGCTTTGTGGTCACTGCTCTCCAGCCCGG
GTGGCTGTCTTTAGTTCCAGGTGAGTCAGAAGTCCACAATGGCAGCTATGAAATCAG
CGTCTGATGATGGGCAACTCAGCCTTTCAGAGCCCTGAAAACTTGGAAAGATGCGGT
GAATGAGGGGCTGAAATAGTGAGAGGACGTCTGCAAAATGCTGGCCTAAATGTGACTGT
GAACGCTACTTTCATGTATTCGGATGGTCTGATCATAACTCAGGCGACTGCCGGAGTAG
CACCTGTGAAGGCTCGACCTACTCAGGAAAATTTCAAATGCACAACGGATGGGCTGTGT
CCTCATAGGGCCCTCATGTACATACTCCACCTTCCAGATGTACCTTGACACAGAATTGAG
CTACCCCATGATCTCAGCTGGAAGTTTTGGATTGTCATGTGACTATAAAGAAACCTTAAC
CAGGCTGATGTCTCCAGCTAGAAAGTTGATGTACTTCTTGGTTAACTTTTGGAAAACCAA
CGATCTGCCCTTCAAACCTTATTCCTGGAGCACTTCGATGTTTACAAGAATGGTACAGA
AACTGAGGACTGTTTCTGGTACCTTAATGCTCTGGAGGCTAGCGTTTCCTATTTCTCCCA
CGAACTCGGCTTTAAGGTGGTGTAAAGACAAGATAAGGAGTTTCAGGATATCTTAATGGA
CCACAACAGGAAAAGCAATGTGATTATTATGTGTGGTGGTCCAGAGTTCCTCTACAAGCT
GAAGGGTGACCGAGCAGTGGCTGAAGACATTGTCAATTCTAGTGGATCTTTCAATGA
CCAGACTTGGAGACAATGTCACAGCCCTGACTATATGAAAAATGCTCCTTGTCTGAC
GCTGTCTCCTGGGAATTCCTTCTAAATAGCTCTTCTCCAGGAATCTATACCAACAAA
ACGAGACTTTGCTCTTGCCTATTTGAATGGAATCCTGCTCTTTGGACATATGCTGAAGAT
ATTTCTTGAAAAATGGAGAAAATATTACCACCCCAAAATTTGCTCATGCTTTCAGGAATCT
CACTTTTGAAGGGTATGACGGTCCAGTGACCTTGGATGACTGGGGGGATGTTGACAGTAC
CATGGTGTCTGTATACCTCTGTGGACACCAAGAAATACAAGGTTCTTTTGACATGA
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TAAACTTCTAATGATATTACAGGCCGGGGCCCTCAGATCCTGATGATTGCAGTCTTCAC
CCTCACTGGAGCTGTGGTGTCTCCTGCTCGTCTCCTGATGCTCAGAAAAATAG



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AAAAGATTATGAACTTCGTGAGAAAAAATGGTCCCACATTCTCCTGAAAAATATCTTTCC
TCTGGAGACCAATGAGACCAATCATGTTAGCCTCAAGATCGATGATGACAAAAGACGAGA
TACAATCCAGAGACTACGACAGTGCAAATACGACAAAAAGCGAGTGATTCTCAAAGATCT
CAAGCACAAATGATGGTAATTTCACTGAAAAACAGAAGATAGAATTGAACAAGTTGCTTCA
GATTGACTATTACAACCTGACCAAGTTCTACGGCACAGTGAAACTTGATACCATGATCTT
CGGGGTGATAGAATACTGTGAGAGAGGATCCCTCCGGGAAGTTTTAAATGACACAATTTT
CTACCCGTATGGCACATTATGGATTGGGAGTTAAGATCTCTGTCTTGTATGACATTGC
TAAGGGAATGTCATATCTGCACTCCAGTAAGACAGAAGTCCATGGTCGTCTGAAATCTAC
CAACTGCGTAGTGACAGTAGAATGGTGGTGAAGTCACTGATTTTGGCTGCAATTCAT
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TCAGAAAGGAGATGTGTACAGCTATGGGATCATCGCACAGGAGATCATTCTGCGGAAAGA
AACCTTCTACACTTTGAGCTGTGCGGACCGGAATGAGAAGATTTTCAGAGTGAAAAATTC
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ACTATATGAGGAAGTTACAATCTACTTCAGTGACATTGTAGGTTTCACTACTATCTGCAA
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CATTGTTGATCATCATGATGTCTACAAGGTGGAACCATCGGTGATGCGTACATGGTGGC
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GATTCGCATTGGAGTTCCTCTGGTCCCTGTGCTGCTGGAGTTGTGGGAATCAAGATGCC
TCGTTATTGTCTATTTGGAGATACGGTCAACACAGCCTCTAGGATGGAATCCACTGGCCT
CCCTTTGAGAATTCACGTGAGTGGCTCCACCATAGCCATCCTGAAGAGAAGTGAAGTCCCA
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GGAATACTTGCAGCTGAATACCACAGACAAGGAGAGCACCTATTTTTAACCTAAATGAG
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TGTCTGGAACATGGACTTTCTTGATGAATCAGATGTGTGTTCTCAGTGAATAACTACC
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TTGTTTATTTTATCGTTTTTGTACTGGCTTTCCTTCTGTATTATAAGATTTTTTAA
ATTGTCATAATTATTTTTAAATACCCATCTTCATTAAGTATATTTAACTCATAATTTT
TGCAGAAAATATGCTATATATTAGGCAAGAATAAAGCTAAAGGTTTCCCAAAAAA
AAAAAAAACCTGACTCTAGATTGGGCCGCGGTATAGCTGTTTCTGAAACAGATCCCG
GGTGGCATCCCTGTGACCCTCCCAAGTGCCT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004963 unedited
 AATGTTCTNAAGTGNATGGGGTCAGNAANACTTGTCTTGGNCTTGGCTTTGTGGTCACT
 GCTCTTCCAGCCCGGGTGGCTGTCTTTATTCCCAGTGAGTCAGAACTGCCACAATGGCA
 GCTATGAAATCAGCGTCTGATGATGGGCAACTCAGCCTTTCAGAGCCCTGAAAACT
 TGGAAGATGCGGTGAATGAGGGGCTGAAATAGTGAGAGGACGTCTGCAAAATGCTGGCC
 TAAATGTGACTGTGAACGCTACTTTCATGTATTCGGATGGTCTGATTCTAACTCAGGCC
 ACTGCCGAGTAGCACCTGTGAAGGCCTCGACCTACTCAGGAAAAATTTCAAATGCACAAC
 GGATGGGCTGTGCCTCATAGGGCCCTCATGTACATACTCCACCTTCCAGATGTACCTTG
 ACACAGAATTGAGCTACCCCATGATCTCAGCTGGAAGTTTTGGATTGTCATGTGACTATA
 AAGAAACCTTAACCAGGCTGATGTCTCCAGCTAGAAAAGTTGATGTACTTCTTGGTAACT
 TTTGGAAAACCAACGATCTGCCCTTCAAACTTATTCCTGGAGCACTTCGTATGTTTACA
 AGAATGGTACAGAACTGAGGACTGTTTCTGGTACCTAATGCTCTGGAGGCTAGCGTTT
 CCTATTTCTCCACGAACCTCGGCTTTAAGGTGGTGTAAAGACAAGATAAGGAGTTTCAGG
 ATATCTTAATGGACCACAACAGGAAAAGNCATGTGATTATTATGNTGGTGGGTCACG
 AGTTCCCTNNCTACAGCTGAAGGTGACCGAGCAGTGGCTTGAGACATTGTCATTATTCTAG
 TGATCTTTTCATGACCACTACTTGGAGGACATGTCACAGCCCTGACTATATGAAAAAT
 GTCCTTGTCTGACGCTGTCTCTTGGAAATTCCTTCTAATAGCTCTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004963 unedited
 NNAATTCTGTACGCGCCGCTTTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTGGGAAACC
 TTTAGCTTTTATCTTGCCTAATATATAGCATATTTTCTGCAAAAATTATGAGTTAAATA
 TACTTTAATGAAGATGGGTATTTAAAAATAATTATGACAATTTAAAAAATCTTATGAAT
 ACAGAAGGAAAGCCAGTAAACAAAAACGATAAATAAACAACAAAAAATAAATGAAAT
 AAGAATAAAATCTTCTCAAGTCTAGATAGTCTATTCATTTCTTTTCTTTCCAGGTAGA
 AGCTCCCTGGAACAACCTGCTGGAATAAGGTTCCAGAGTGAAGGTAGTTATTTCACTGAG
 AACACACATCTGATTCATGCAAGAAAGTCCATGTTCCAGACAGGGCAGCCAAGCCTAAGT
 ACATTTCTGCTTCATTGAGGCTCAGGAAAATGTAAGCTTTCAGGACACTTGAGGTCGCT
 GCCTCAGTGCAGCTGTATTTAATTTGTGTGAGTCCTTATACCTCATTTAGGTTTAAAAA
 TAGGTGCTCTCCTTGTCTGTGGTATTCAGCTGCAAGTATTCAGAGTGCCTTTTTTATAG
 CTGGCTACCCGCTGGGTTTTGGCTTCTTATCCCTGCTGCCTGTCTTTCTGTAAGAG
 TTGGCAATCATGTCTGAAAATTCTGCTTGCCAACGCTGTTGATTCTCCACAGTAGGAGGG
 GTTGGCAGGTTGAAATCTGGTGTCTTCCATCCCATCACCCTGAGGTGATGCCAGTCCCC
 TTCCCTTAAATATGTTCTCCACTCAATTCGTAAGGACCGGCACTCAGTTCTCTCAGGA
 GGGTATGGCGGAACCCCTACACTGAATTTCAAAGGGAGGCCAATGGATTCCATCCAAAGG
 CGAGATAACATGT

Restriction Sites:

NotI-NotI

ACCN:

NM_004963

Insert Size:

3900 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_004963.1 , NP_004954.1
RefSeq Size:	3745 bp
RefSeq ORF:	3222 bp
Locus ID:	2984
UniProt ID:	P25092
Cytogenetics:	12p12.3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Purine metabolism
Gene Summary:	<p>This gene encodes a transmembrane protein that functions as a receptor for endogenous peptides guanylin and uroguanylin, and the heat-stable E. coli enterotoxin. The encoded protein activates the cystic fibrosis transmembrane conductance regulator. Mutations in this gene are associated with familial diarrhea (autosomal dominant) and meconium ileus (autosomal recessive). [provided by RefSeq, Nov 2016]</p>