

Product datasheet for **MC220725**

Gucy2e (BC057954) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2e (BC057954) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gucy2e
Synonyms:	GC-E; GC1; ROS-GC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC057954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGCTTGGCTCCTGCCAGCCGGAGGGCTTCCCGCGCCGGGTTCTGTGTCCCTGCGCGGCAGTCTC
 CGTCCAGTTTCTCGCGGGTCTGCGCTGGCCAAGGCCTGGGCTACCGGGACTCCTGCTACTGCTACTGCT
 CCCATCTCCTTCTGCCCTCTCTGCTGTGTTCAAAGTGGGGTGTGGGCCCTGGGCTTGCAGCCCCATC
 TTTGCACGGGCCGACCAGACCTGGCTGCGCGTCTGGCCGCAACCGCCTGAATCGTGACTTTGCTTTAG
 ACGGGCGCCCCGGTTCGAGGTTGCGTCTCCAGAGCCCTGCCTGACTCCGGGCTCACTAGGGGCTGT
 GTCCTCTGCGTGTCTCGAGTCTTGGCCTGGTGGGTCCGGTGAACCCCGCAGCCTGTCCGCCAGCCGAA
 CTGTTGGTCAAGAAGCTGGAGTAGCGTGGTGCCTGGGGTGCCTGGCACCGGGCGGGGGTACTA
 CAGCCCCGGCGGTGACCCCGCTGCAGATGCTCTCTACGTCCTCCTTAGAGCATTCCGCTGGGCGCGGT
 GGCCCTGATCACTGCACCCAAGACCTGTGGTGGAGGGGACGCGCTCTGTCCACAGCACTCAGGGCC
 CGGGGTTTGCCAGTTGCCCTAGTGACTTCCATGGAGACTTCCAGACCGGTCTGGAGCCCGGAGGCCCTCG
 GGAGGATCCGAGATGGGCTAGAGTTAGAGTAGTGATCATGGTGTGACTCGGTGCTGTGGGCGGCGA
 GGAGCAGCGCTACCTACTGGAAGCTGCAGAAGAACTGGCTCTGACTGATGGCTCCCTGGTTTTCTGCC
 TTCGACACGCTTCACTACGCTTTGTCTCCAGGCCCGGAGGCTCTGGTGCATTTGTCAACAGCTCCCAGC
 TCCGCAGGGCTCACGATGCGGTGCTCACACTCACGCGCCGCTGTCTCTGGAGGCAGCGTGAAGACAG
 CCTGGCAGGGCTCAAGAACCAGGAAGTCCCTTACCTCAACCTGAAGCAGTCTCTCCGCTGTTT
 GGCACCATCTATGATGCTGTCTTCTGTTGGCTGGGGCGTGAAGAGAGCAAGAACAGCGGTGGTGGTG
 GGGAGTGCAGGTGCATCTGTAGCCCGCAAGTACGGGAAGCACAAGTCTCTGGCTTTTGTGGGCTCT
 GGAAGAACCAGGAGCCCTCCTTTGTGCTGCTGGACACAGATGCATCCGGAGAACAGTTGTTCCGAACA
 CACCTGTAGATCCTGTCTTAGGCTCCCTGCGTCTGCAGGGACCCCATGCACTTCCCTAGAGGTGGAC
 CTGCCCGGGACAGACCCTTCTGCTGGTTCGATCCAGATGTGATCTGCAACGGAGGGGTGGAGCCAGG
 CCTGGTCTTTGTTGGCTTCTCCTGGTGTAGGGATGGGACTGACTGGAGCCTTCTGGCTCATTACTTG
 AGGCACAGGCTGTACACATGCAGATGGCTTCCGGCCCCAACAAGATCATCTTGACGTTGGAAGATGTTA
 CTTTCTCCACCACCGGAGGCAGCTCTGAAAGGTGGTCCAGGGAAGTAGATCCAGTCTGGCTACCCG
 GAGCGCATCAGACATTCGAGTGTCCCCAGCCAGCCCCAAGAGAGCACCACGTTGGCCTCTATGAGGG
 GACTGGGTTTGGCTGAAGAAGTCCCAGGGGAACATCATATGGCTATCAGGCCAGCAACAAGACAGCCT
 TCTCCAAGCTTCGAGAGCTCCGGCATGAGAATGTGGCTCTCTACTTGGGACTCTTCTGGCGGGTACAGC
 AGACAGCCCTGCCACCCCTGGGGAGGGCATCTGGCTGTGGTCTCAGAGCACTGTGCTCGGGGTTCCCTC
 CATGACCTCCTGGCCAGAGAGAAATAAGCTGGACTGGATGTTCAAGTCTTCCCTCCTGCTGGACCTCA
 TCAAGGGAATGAGATATCTGCACCATCGCGGTGTGGCCACGGGAGGCTCAAGTACGGAATTGCGTGGT
 GGACGGGAGGTTCTGTCTCAAGGTGACAGATCATGGCCATGGGCGACTGCTGGAAGCGCAAAGGGTGT
 CCGGAACCTCCAGTGCAGAGGATCAGCTATGGACAGCCCCAGAGCTTCTCGGGACCCCTCCCTGGAGC
 GCCGGGAACTCTAGCTGGTGTGTCTTTAGTCTGGCCATCATATGCAGGAGGTCGTGTGCCGACGAC
 CCCTTATGCCATGCTGGAACAAACGCCCGAGGGTAAGGTGGTTTGGGGCCAGATAGGCACCCTGTAG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC057954
Insert Size: 1974 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).
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>BC057954</u>
RefSeq Size:	3213 bp
RefSeq ORF:	2306 bp
Locus ID:	14919
Cytogenetics:	11 42.51 cM
Gene Summary:	Catalyzes the synthesis of cyclic GMP (cGMP) in rods and cones of photoreceptors. Plays an essential role in phototransduction, by mediating cGMP replenishment (PubMed:21598940). May also participate in the trafficking of membrane-associated proteins to the photoreceptor outer segment membrane (PubMed:17255100).[UniProtKB/Swiss-Prot Function]