

Product datasheet for **MC223603**

Gucy2f (NM_001007576) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gucy2f (NM_001007576) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gucy2f
Synonyms: A930002106; GC-F; GC2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223603 representing NM_001007576
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTCGGACCTGGCCTTTTTCTCGCCTTCTGTCTGGTTGCCATTTCCAGCAGACTGTCAGGAC
 AGCATGGCCTCCCTTCTCCAAGTTCTGAGATGTTTGTGCTCTTGGCCCTTTTGCCTCTCCTTCGGTG
 GGGCAAGCACTCCCCTACAAGATCGGGGTCATAGGTCCTGGACATGTGATCCGTTCTTTTCCAAGGCC
 CTGCTGAGGTTGCTGCTGCTTTAGCAATTGAGCGAATCAGCCGGGACAAGACATTTGACAGGAGTTACT
 CCTTCGAATACGTGATTCTTAACGAAGACTGTCAGACTTCAAAGGCCCTCGCCAGTTTCATTTCCACCA
 GCAGATGGCCTCAGGATTTGTTGGGCTGCCAACCTGGCTTCTGCGAGGCAGCCTCACTCCTGGGAACC
 AGCTGGGACAAAGGGATTTCTCTTGGGCTTGTGTGAATCATGAATTAGATAACAAACATAGCTTCCCAA
 CCTTCTCTCGGACTCCCTTCTCCGATACGGGTGCTTGAACCGTCATGAAGTATTTCCAGTGGGCACA
 TGCTGGGGTCATTTCTCAGATGAAGACATTTGGATGCATACAGCCAATCGAGTCTCAAGTGTCTTTCGG
 AGCCAGGGCCTACCTGTAGGGTCTGCTGACCTCGGGACGAGACAGCCAGAGCATTAGAAAGCCTCTCC
 AGCAGATTCGCCAGGCAGACAGAATTCGCATAATCATAATGTGTATGCATTCAGCCTTGATTGGGGGAGA
 GACACAAACACACTTCTTGAATTGGCTCATGATCTGAAAATGACAGATGGGACTTACGTCTTTGTCCCC
 TATGATGTACTGCTCTACAGTTTACCTTATAAGCACAGCCCTACCAGGTCTGAGGAACAATCCAAAGC
 TCCGGGAAGCCTATGATGCTGTGTGACTATTACAGTGGAGTCCCATGAAAAGACCTTCTACGAAGCCTA
 TGCAGAAGCAGCAGCCCGCGGAGAAATTCCTGAGAAGCCTGACTCAAACCAAGTTTACCCTTGTGGGA
 ACCATCTACAATTCAATTTATTTATCGCACAAGCCATGAATAATGCTATGAAAAAAATGGACGGGCTA
 GTGCTGCCAGCCTGGTTCAGCATTCCAGAAACATGCAGTCTATGGATTCACCAGTTGATAAAGACAGA
 CTCAAATGGAAATGGGATTTCTGAATATGTAATCCTGGACACCAATGGGAAAGAATGGGAACCTCGTGGC
 ACCTACACTGTGGACATGAAACTGAAGTCTAAGGTTTCAGAGGGACCCCAATTCATTTCCCTGGCGGCA
 GACCTACTAGTGCAGATGCAAAATGCTGGTTTGCAGAAAGGAAGATCTGCCAAGGAGGATTGACCTGTC
 CTTGGCCATGATGGTCTGCTTTGCTTTACTTATAGCCTTGTCTATCAATGGATTTGCTTACTTTATA
 AGGCGACGTATAAATAAAATCCAGTTGATTAAGGACCCAACAGAATCCTACTGACTTTGGAAGATGTGA



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CATTTATTAATCCCCACTTTGGCAGTAAGAGAGGAAGCCGTGCCAGTGTAAAGCTTCCAGATCATCTCAGA
 AGTTCAAAGTGGGAGGTCCCAAGGCTGTCTTTTCTTCAGGTAGTCTAACTCCAGCTACATATGAGAAC
 TCCAACATAGCAATCTATGAGGGTGACTGGGTATGGCTGAAAAAGTTCCCTCCTGGAGATTTTGGAGACA
 TTAAGTCTATCAAATCGAGTGCAAGTGATGTGTTTGAATGATGAAGGACCTGCGGCATGAAAATGTCAA
 CCCTCTATTGGGTTTCTCTATGATTGGGGATGTTGCCATCGTGTGAGAATTTGTTCTCGAAGGAGC
 CTAGAAGACATACTTACAAATGATGATGTGAAACTTGATTGGATGTTCAAATCATCACTACTGCTTGACC
 TCATCAAGGGGATGAAATACTTACACCACAGAGAATTTATTCACGGGAGGCTAAAGTCTCGGAATGTGT
 GGTAGATGGGCGTTTTGCTAAAAGTGACAGATTATGGCTTAAATGACATTTTAGAAATGCTGAGACTC
 TCTGAAGAGGAACCTTCTGAAGAAGAGCTGCTGTGGACGGCCCTGAACTGTTAAGAGCCCTGGGGCA
 TCAGGTTAGGTTCAATTCAGGAGAGCTCTATAGCTTTGCCATCATGCAAGAAGTGATGGTTCGGGG
 TGCTCCTTTCTGCATGATGGATCTGCCTGCCAAAGAAATCATAGACAGACTTAAAATGCCTCCCCCTGTG
 TACAGACCCGTGGTTTCTCTGAGTATGCCCTGCAGAATGTCTCCAGCTGATGAAGCAGTGCTGGGCTG
 AGGCGTCAGAACAGCGACCAACTTTTGATGAAATATTTAACCAGTTTAAAACCTTCAACAAAGGGAAAA
 GACTAATATTATTGATTCTATGCTTCGGATGTTGGAGCAGTATTCTAGCAACTTGAAGATTGATCCGG
 GAACGGACTGAAGAATTGAAAATGAAAAACAGAAAACGAAAAGCTTCTAACACAGATGTACCACTAT
 CAGTTGCTGAATCCCTCAAGAAGGGCTGTACAGTTGAACCTGAGGGATTGACTTGGTCACCTTGTACTT
 CAGTGACATTGTGGGCTTACCACCATCTCAGCCATGAGTGAGCCATTGAAGTTGTGGACCTTCTGAAT
 GACCTGTACACTCTTTGATGCCATCATTGGCAGTCAATGATGTCTATAAAGTAGAGACCATTGGAGATG
 CCTACATGGTGGCCTCAGGCCTTCCAAGAGGAATGGCAGTAGGCATGCAGCTGAGATTGCAACATGTC
 CCTGGATATCCTGAGTTCTGTGGGTACCTTTAAGATGCGACACATGCCAGAGGTGCCAGTCCGAATTGCA
 ATAGGCCCTGCACTCGGGCCTGTGTTGCTGGAGTGGTGGGCCTCACCATGCCAGATATTGCTTGTGTTG
 GGGACACTGTGAACACAGCTTCTCGAATGGAATCAACAGGGCTACCATACCGAATTATGTCAGTCTCAG
 CACAGTAACAATTCTTCAAACCTGAGTGAAGGCTATGAAGTAGAGCTTCGTGGAAGAACAGAGCTCAAG
 GGCAAAGGCACAGAGGAGACCTTTTGGCTTGTGGAAAAAGGGTTTCACCAAACCTCTTCTGTACCCC
 CACCAGTGGGCAAGATGGGCAAGTGGCCATGGCTTGAACCAGCAGAGATTGCAGCATTCCAAGGAG
 AAAAGCAGAGAGGCAGTTGGTGCAAAACAGCCATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001007576
- Insert Size:** 3327 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:**
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_001007576.2](#), [NP_001007577.1](#)

RefSeq Size: 9998 bp

RefSeq ORF: 3327 bp

Locus ID: 245650

UniProt ID: [Q5SDA5](#)

Cytogenetics: X 62.85 cM

Gene Summary: Probably plays a specific functional role in the rods and/or cones of photoreceptors. It may be the enzyme involved in the resynthesis of cGMP required for recovery of the dark state after phototransduction (By similarity).[UniProtKB/Swiss-Prot Function]