

## Product datasheet for **MG210153**

### **Gys2 (NM\_145572) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Gys2 (NM_145572) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Gys2                                    |
| Synonyms:                 | BC021322; LGS                           |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>MG210153 representing NM\_145572  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCAGAGCCGCTCCTTGTGCGTGACATCCCTTGGTGGGCTCCCTGTGTGGGAAGCTGAAAGACTCC  
 CTGTGGAAGACTTACTGCTTTTTGAAGTTTCTTGGGAGGTGACCAACAAAGTTGGGGCATCTGTACTGT  
 GATCCAGACCAAGGCCAAAACGACAGCCGATGAGTGGGAGAGAATTACTTCTGATAGGTCCGTACTTT  
 GAGCATAATATGAAGACTCAAGTAGAACATGTGAGCCACCAACGATGCTGTCAGAAAAGCTGTGGATG  
 CGATGAATAAACATGGCTGCCAGGTGCATTTTGGAAAGTGGCTCATAGAAGGGAGTCCCTACGTGGTGT  
 CTTTGACATCAGCTCCTCAGCATGGAACCTGGACAGATGGAAGGGTACTTCTGGGAAGCTTGTGGCGTT  
 GGCATCCCTCATCATGACCGAGAAGCTAACGACATGCTCATATTTGGGTCTTAACTGCCTGGTTCTTAA  
 AGGAGGTGACAGACCACGACAGCGGTAACACGTCATTGCCCAATCCATGAATGGCAGGCTGGGACTGG  
 GCTGATCCTTTCTCGTCCAGGAAACTCCCATGCCACAGTATTTACAACCCATGCCACACTGCTTGGG  
 CGTTATCTCTGTGCAGCAAATATTGACTTCTACAACAGCTTGACAAGTTCGACATTGACAAAGAGGCCG  
 GGGAGAGGCAGATATACCACCGCTACTGCATGGAGCGGGCATCCGTGCACTGTGCGCACGTGTTCCACC  
 AGTGTGAGAAATCACAGCCATCGAGGCAGAGCACATGCTGAAGAGGAAGCCTGATGTAGTGACTCCAAAT  
 GGTTTGAATGTTAAGAAGTTTCTGCAAGTGCATGAATTTCAAATCTCCACGCCATGTACAAGGCCAGGA  
 TACAGGATTTCTGTTCCAGGTCATTTCTATGGTCATCTGGACTTTGATCTTGAGAAGACTTATTCCTCTT  
 CATTGCTGGGAGATGAATTTCAAACAAAGGAGCAGACATCTCCTGGAGTCTTATCCAGGCTTAAT  
 TTCTCCTGAGGATGCATAAGAGTAACGTCACCGTGGTAGTGTGTTTTCATCATGCCTGCCAAGACAAACA  
 ATTTCAACGTGGAAACCCTGAAGGGCCAGGCAGTGCAGGAAACAGCTGTGGGACACTGTGCATTGTTTGA  
 GGAGAAGTTTGGGAAGAACTCTATGACGGGTTATTAAGAGGAGAAATTCCTGACATGAATAGTATTTTG  
 GATCGAGATGACTTAACAATTATGAAAAGGGCCATTTTTTCAACTCAGAGACAGTCTTTCCTCCTGTGA  
 CCACTCACAATATGATCGATGATTCACGGATCCCATCCTCAGCACCATTAGACGAATCGGACTTTTCAA  
 CAATCGTGCAGACAGAGTCAAGGTGATTTTACACCCAGAATTCCTGCTCCTCCACCAGCCCTCTATTGCC  
 ATGGATTATGAAGAGTTTGTCCGAGTTGTACCTTGGGGTGTTCATCGTACTATGAACCCTGGGGTT  
 ACACACCAGCTGAATGCACAGTGTGGCATCCCAAGTGTGACTACAAACCTCTCCGTTTTTGGGTGTT  
 CGTGCAGGAGCATGTGGCTGACCCTACTGCATACGGTATTTACATCGTGGACAGACGCTTCCGCTCTCA  
 GACGATCTTGAACAGCTGACTCAGTTCCTCTACGGTTTTGTAACAGTCACGCCGCAAGGATCA  
 TTCAGAGGAACCGCACGGAGAGGCTCTCAGATCTCCTGGACTGGAGATACCTGGGCAGATATTACCAGCA  
 TGCCAGACACCTGACACTGAGCAGGGCTTTTCCAGACAAATCCACCTAGAGCCACATACCACCAACG  
 ACGGATGGCTTTAAGTATCCCAGGCCCTCCTCAGTACCACCTTCTCCGTCAGGATCCCAGGCCCTCAGTC  
 CTCAGTGCAGTGTGCGGAAGACGAAGAAGATGAGGATGAGAGGTATGATGAGGAAGAGGAGGCTGAGAG  
 GGATCGGCTAAATATCAAGTCACCGTTTTCTGAACCACTTTCCAAAGGGGAAGAAAAGCTTCATGGA  
 GAATATAAGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210153 representing NM\_145572  
 Red=Cloning site Green=Tags(s)

```
MLRGRSLSVTSLGGLPVWEAERLPVEDLLLFEVSWEVTNKVGGICTVIQTKAKTTADEWGENYFLIGPYF
EHNMTQVEQCEPTNDAVRKAVDAMNKHGCVHFGRWLIEGSPYVVLFDISSAWNDRWKGDFWEACGV
GIPHHREANDMLIFGSLTAWFLKEVTDHADGKHVIAQFHEWQAGTGLILSRARKLPIATVFTTHATLLG
RYLCAANIDFYNLQDKFDIDKEAGERQIYHRYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVVTN
GLNVKKSAVHEFQNLHAMYKARIQDFVRGHFYGHLDFDLEKTLFLFIAGRYEFSNKGADIFLESLSRLN
FLLRMHKSNTVVVFFIMPAKTNNFNVELTKGQAVRKQLWDTVHCLKEKFGKLYDGLLRGEIPDMNSIL
DRDDLTIMKRAIFSTQRQSLPPVTTNMIIDSTDPILSTIRRIGLFNNRDRVKVILHPEFLSSTSPLLP
MDYEEFVRGCHLGVFSPSYEPWGYTPAECTVMGIPSVTTNLSGFGCFVQEHVADPTAYGIYVDRFRSP
DDSCNQLTQFLYGFCQSRQRRIQQRNTERLSDLLDWRYLGRYYQHARHLTL SRAFPDKFHLEPTSPPT
TDGFKYPRPSSVPPSPSGSQASSPQCSDAEDEDEDERYDEEEEAERDRLNIKSPFSLNHFPGKKKLHG
EYKN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145572

**ORF Size:** 2112 bp

**OTI Disclaimer:** 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).

**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\\_145572.2](#), [NP\\_663547.2](#)

**RefSeq Size:** 2671 bp

**RefSeq ORF:** 2115 bp

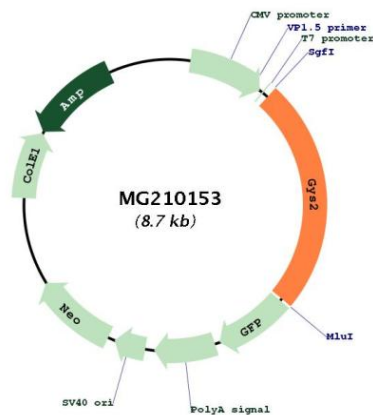
**Locus ID:** 232493

**UniProt ID:** [Q8VCB3](#)

**Cytogenetics:** 6 G2

**Gene Summary:** Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG210153