

## Product datasheet for **MR210153**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gys2 (NM_145572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gys2
Synonyms:	BC021322; LGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210153 representing NM\_145572  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCTCAGAGCCGCTCCTTGTCGGTGACATCCCTTGGTGGGCTCCCTGTGTGGGAAGCTGAAAGACTCC  
CTGTGGAAGACTTACTGCTTTTTGAAGTTTCTTGGGAGGTGACCAACAAAGTTGGGGCATCTGTACTGT  
GATCCAGACCAAGGCCAAAACGACAGCCGATGAGTGGGAGAGAATTACTTCTGATAGGTCCGTACTTT  
GAGCATAATATGAAGACTCAAGTAGAACATGTGAGCCACCAACGATGCTGTCAGAAAAGCTGTGGATG  
CGATGAATAAACATGGCTGCCAGGTGCATTTTGGAAAGTGGCTCATAGAAGGGAGTCCCTACGTGGTGT  
CTTTGACATCAGCTCCTCAGCATGGAACCTGGACAGATGGAAGGGTACTTCTGGGAAGCTTGTGGCGTT  
GGCATCCCTCATCATGACCGAGAAGCTAACGACATGCTCATATTTGGGTCTTAACTGCCTGGTTCTTAA  
AGGAGGTGACAGACCACGACAGCGGTAACACGTCATTGCCAATCCATGAATGCCAGGCTGGGACTGG  
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CGTTATCTCTGTGCAGCAAATATTGACTTCTACAACAGCTTGACAAGTTCGACATTGACAAAGAGGCCG  
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TTCTCTGAGGATGCATAAGAGTAACGTCACCGTGGTAGTGTGTTTTCATCATGCCTGCCAAGACAAACA  
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GATCGAGATGACTTAACAATTATGAAAAGGGCCATTTTTTCAACTCAGAGACAGTCTTTCCTCCTGTGA  
CCACTCACAATATGATCGATGATTCACGGATCCCATCCTCAGCACCATTAGACGAATCGGACTTTTCAA  
CAATCGTGCAGACAGAGTCAAGGTGATTTACACCCAGAATTCCTGTCTCCACCAGCCCTCTATTGCC  
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ACACACCAGCTGAATGCACAGTGTGGCATCCCACTGTGACTACAACTCTCCGTTTTGGGTGTTT  
CGTGCAGGAGCATGTGGCTGACCCTACTGCATACGGTATTTACATCGTGGACAGACGCTTCCGCTCTCA  
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TTCAGAGGAACCGCACGGAGAGGCTCTCAGATCTCCTGGACTGGAGATACCTGGGCAGATATTACCAGCA  
TGCCAGACACCTGACACTGAGCAGGGCTTTTCCAGACAAATCCACCTAGAGCCACATACCACCAACG  
ACGGATGGCTTTAAGTATCCCAGGCCCTCCTCAGTACCACCTTCTCCGTGAGGATCCCAGGCCTCCAGTC  
CTCAGTGCAGTGTGCGGAAGACGAAGAAGATGAGGATGAGAGGTATGATGAGGAAGAGGAGGCTGAGAG  
GGATCGGCTAAATATCAAGTCACCGTTTTCTGAACCACTTTCCAAAGGGGAAGAAAAGCTTCATGGA  
GAATATAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210153 representing NM\_145572  
Red=Cloning site Green=Tags(s)

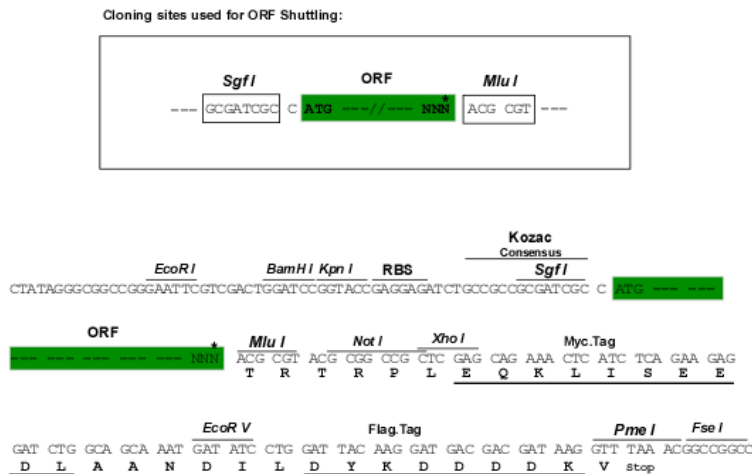
MLRGRSLSVTSLGGLPVWEAERLPVEDLLLFEVSWEVTNKVGGICTVIQTKAKTTADEWGENYFLIGPYF  
 EHNMKTQVEQCEPTNDAVRKAVDAMNKHGCVHFGRWLIEGSPYVVLFDISSAWNLDWRKGFWEACGV  
 GIPHHDRANDMLIFGSLTAWFLKEVTDHADGKHVIAQFHEWQAGTGLILSRARKLPATVFTTHATLLG  
 RYLCAANIDFYNLQDKFDIDKEAGERQIYHRYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVVTPN  
 GLNVKKFSAVHEFQNLHAMYKARIQDFVRGHFYGHLDFDLEKTLFLFIAGRYEFSNKGADIFLESLSRLN  
 FLLRMHKSNTVVVFFIMPAKTNNFNVELTKGQAVRKQLWDTVHCLKEKFGKLYDGLLRGEIPDMNSIL  
 DRDDLTIMKRAIFSTQRQSLPPVTTHNMIDDSTDPILSTIRRIGLFNNRADRKVIILHPEFLSSTSPLLP  
 MDYEEFVRGCHLVFSPSYEPWGYTPAECTVMGIPSVTTNLSGFGCFVQEHVADPTAYGIYVDRRFRSP  
 DDSCNQLTQFLYGFCQSRQRRIQQRNTERLSDLLDWRYLGRYYQHARHLTL SRAFPDKFHLEPTSPPT  
 TDGFKYPRPSSVPPSPSGSQASSPQCSDAEDEDEDERYDEEEEAERDRLNIKSPFSLNHFPKGKKKLHG  
 EYKN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9047\\_f09.zip](https://cdn.origene.com/chromatograms/mm9047_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_145572

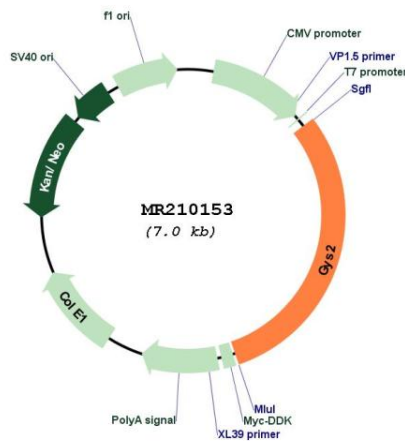
**ORF Size:** 2112 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_145572.2, NP_663547.2</u>
<b>RefSeq Size:</b>	2671 bp
<b>RefSeq ORF:</b>	2115 bp
<b>Locus ID:</b>	232493
<b>UniProt ID:</b>	<u>Q8VCB3</u>
<b>Cytogenetics:</b>	6 G2
<b>MW:</b>	81.3 kDa
<b>Gene Summary:</b>	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 MR210153