

## Product datasheet for **MG200380**

### Glrx (NM\_053108) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Glrx (NM\_053108) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Glrx  
**Synonyms:** C86710; D13Wsu156e; Glrx1; Grx1; TTase  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200380 representing NM\_053108  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAGGAGTTTGTGAAGTCAAGATCCAGTCTGGGAAGGTGGTCGTGTTTCATCAAGCCCACTTGCC  
CCTACTGCAGAAAGACCCAAGAAATCCTCAGTCAACTGCCTTTCAAACAAGGTCTTCTGGAGTTTGTGGA  
CATCACAGCCACTAACACACCAGTCCGATTCAAGATTATTTACAACAGCTCACCGGAGCGAGAAGATT  
CCTCGGGTCTTCATAGGTAAGACTGCATAGGCGGATGCAGTGATCTAATCTCCATGCAACAGACTGGGG  
AGCTGATGACTCGGCTGAAGCAGATTGGAGCTCTGCAGTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200380 representing NM\_053108  
Red=Cloning site Green=Tags(s)  
MAQEFVNCKIQSGKVVVFIKPTCPYCRKTQEILSQLPFKQGLLEFVDITATNNTSAIQDYLLQTLGARTV  
PRVFIGKDCIGGCSDLISMQQTGELMTRLKQIGALQL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

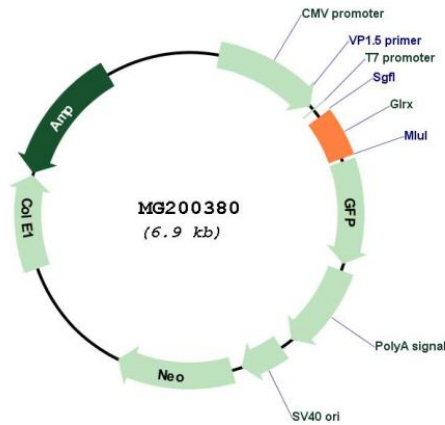


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_053108

ORF Size: 321 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](#)

<b>OTI Annotation:</b>	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><a href="#">NM_053108.3</a></u>
<b>RefSeq Size:</b>	1331 bp
<b>RefSeq ORF:</b>	324 bp
<b>Locus ID:</b>	93692
<b>UniProt ID:</b>	<u><a href="#">Q9QUH0</a></u>
<b>Cytogenetics:</b>	13 40.95 cM
<b>Gene Summary:</b>	Has a glutathione-disulfide oxidoreductase activity in the presence of NADPH and glutathione reductase. Reduces low molecular weight disulfides and proteins.[UniProtKB/Swiss-Prot Function]