

## Product datasheet for MR201690

### Glo1 (NM\_025374) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Glo1 (NM\_025374) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Glo1  
**Synonyms:** 0610009E22Rik; 1110008E19Rik; 2510049H23Rik; AW550643; Glo-1; Glo-1r; Glo-1s; Glo1-r  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201690 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGAGCCACAGCCGGCGTCCAGTGGCCTCACTGATGAGACCGCTTTCAGCTGCTGCTCCGATCCAG  
ACCCACAGACCAAGGATTTTCTACTGCAGCAAACGATGCTAAGAATTAAGGATCCTAAGAAGTCCCTGGA  
TTTTTATACGAGGGTTCTTGGACTGACCCTCCTGCAGAAGCTTGACTTCCCTGCTATGAAGTTCTCGCTC  
TACTTCTTAGCTTACGAGGATAAGAACGATATCCCAAGGACAAGTCCGAGAAGACAGCATGGATGTTTT  
CCAGAAAAGCCACCCTTGAGCTCAGCACAACTGGGGCACTGAAGATGACGAGACTCAGAGTTACCACAA  
CGGCAACTCGGACCCTCGTGGATTTGGTACATTGGGATTGCCGTTCTGATGTCTACAGTGCCTGTAAG  
AGATTTGAAGAACTAGGTGTCAAGTTTGTGAAGAAGCCTGATGACGGGAAAATGAAAGGACTGGCGTTCA  
TTCAAGACCCTGACGGCTACTGGATTGAGATTCTGAATCCTAACAAAATAGCAACGATTATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201690 protein sequence  
Red=Cloning site Green=Tags(s)  
MAEPQPASSGLTDETAFCSSDPDPSTKDFLLQQTMLRIKDPKSLDFYTRVLGLTLLQKLDLPAMKFSL  
YFLAYEDKNDIPKDKSEKTAWMFSRKATLELTHNWGEDDETQSYHNGNSDPRFGHIGIIVPDVYSACK  
RFEELGVKFKVKKPDDGKMKGLAFIQDPDGYWIEILNPNKIATII

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_025374

**ORF Size:** 555 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\\_025374.2](#), [NP\\_079650.2](#)

**RefSeq Size:** 1958 bp

**RefSeq ORF:** 555 bp

**Locus ID:** 109801

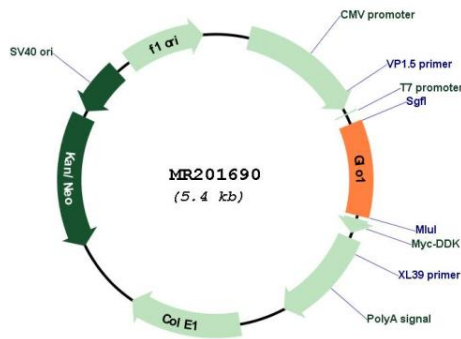
**UniProt ID:** [Q9CPU0](#)

**Cytogenetics:** 17 15.69 cM

**MW:** 20.8 kDa

**Gene Summary:** Catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione. Involved in the regulation of TNF-induced transcriptional activity of NF-kappa-B. Required for normal osteoclastogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201690