

Product datasheet for **MG217312**

Glo1 (NM_001113560) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glo1 (NM_001113560) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Glo1
Synonyms: 0610009E22Rik; 1110008E19Rik; 2510049H23Rik; AW550643; Glo-1; Glo-1r; Glo-1s; Glo1-r
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217312 representing NM_001113560
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGCCACAGCCGGCGTCCAGTGGCCTCACTGATGAGACCGCTTTCAGCTGCTGCTCCGATCCAG
ACCCTAGACCAAGGATTTTCTACTGCAGCAAACGATGCTAAGAATTAAGGATCCTAAGAAGTCCCTGGA
TTTTTATACGAGGGTTCTTGGACTGACCCTCCTGCAGAAGCTTGACTTCCCTGCTATGAAGTTCTCGCTC
TACTTCTAGCTTATGAGGATAAGAACGATATCCCAAGGACAAGTCCGAGAAGACAGCATGGACGTTTT
CCAGAAAAGCCACCCTTGAGCTCAGCACAACTGGGGCACTGAAGATGACGAGACTCAGAGTTACCACAA
CGGCAACTCGGACCCTCGTGGATTTGGTACATTGGGATTGCCGTTCTGATGTCTACAGTGCCTGTAAG
AGATTTGAAGAACTAGGTGTCAAGTTTGTGAAGAAGCCTGATGACGGGAAAATGAAAGGACTGGCGTTTA
TTCAAGACCCTGACGGCTACTGGATTGAGATTCTGAATCCTAACAAAATAGCAACGATTATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217312 representing NM_001113560
Red=Cloning site Green=Tags(s)

MAEPQPASSGLTDETAFCSSSDPDPSTKDFLLQQTMLRIKDPKSLDFYTRVLGLTLLQKLDPFAMKFSL
YFLAYEDKNDIPKDKSEKTAWTFSRKATLELTHNWGTEDETQSYHNGNSDPRFGHIGIIVPDVYSACK
RFEELGVKFKVKKPDDGKMKGLAFIQDPDGYWIEILNPNKIATII

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

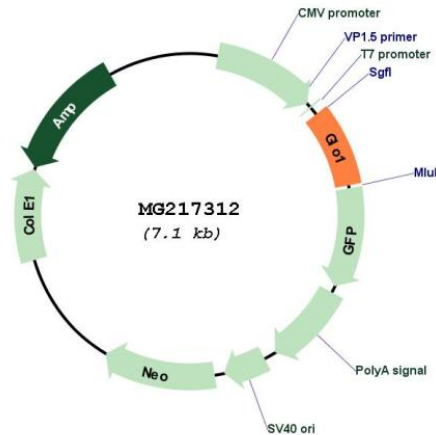


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001113560

ORF Size: 552 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:	<ol style="list-style-type: none">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:	<u>NM_001113560.1</u> , <u>NP_001107032.1</u>
RefSeq Size:	918 bp
RefSeq ORF:	555 bp
Locus ID:	109801
UniProt ID:	<u>Q9CPU0</u>
Cytogenetics:	17 15.69 cM
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]