

Product datasheet for **MG201008**

Lyz2 (NM_017372) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lyz2 (NM_017372) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lyz2
Synonyms: AI326280; Lys; Lysm; Lyzf2; Lyzs; Lzm; Lzm-s1; Lzp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201008 representing NM_017372
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACTCTCCTGACTCTGGGACTCCTCCTGCTTTCTGTCACTGCTCAGGCCAAGGTCTATGAACGTT
 GTGAGTTTGCCAGAACTCTGAAAAGGAATGGAATGGCTGGCTACTATGGAGTCAGCCTGGCCGACTGGGT
 GTGTTTAGCTCAGCACGAGAGCAATTATAACACACGAGCTACAACTACAACCGTGGAGACCAAAGCACT
 GACTATGGGATATTTAGATCAATAGCCGATACTGGTGAATGATGGCAAACCCCAAGAGCTGTGAATG
 CCTGTGGGATCAATTGCAGTCTCTGCTGCAGGATGACATCACTGCAGCCATACAATGTGCAAAGAGGGT
 GGTGAGAGATCCCAAGGCATTCGAGCATGGGTGGCATGGCGAGCACACTGTCAAACCGAGATCTGTCC
 CAGTATATTCGGAAGTGGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201008 representing NM_017372
 Red=Cloning site Green=Tags(s)

MKTLTLLGLLLL SVTAQAKVYERCEFARTLKRNGMAGYYGVSLADWVCLAQHESNYNTRATNYNRGDQST
 DYGIFQINSRYWCNDGKTPRAVNACGINCSALLQDDITAAIQCAKRVVRDPQGI RAWVAWRAHCQNRDLS
 QYIRNCGV

TRTRPLE - GFP Tag - V

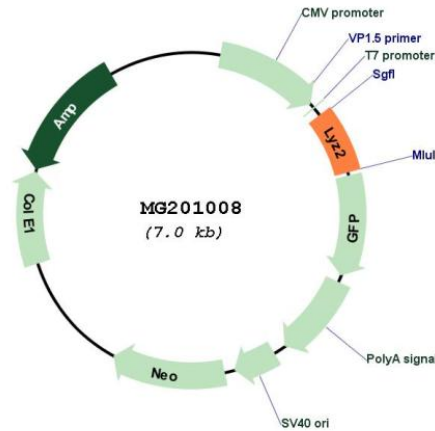
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_017372

ORF Size: 444 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_017372.3</u>
RefSeq Size:	1271 bp
RefSeq ORF:	447 bp
Locus ID:	17105
UniProt ID:	<u>P08905</u>
Cytogenetics:	10 65.34 cM
Gene Summary:	Lysozymes have primarily a bacteriolytic function; those in tissues and body fluids are associated with the monocyte-macrophage system and enhance the activity of immunoagents. Lyz2 is active against a range of Gram-positive and Gram-negative bacteria. More effective than Lyz1 in killing Gram-negative bacteria. Lyz1 and Lyz2 are equally effective in killing Gram-positive bacteria.[UniProtKB/Swiss-Prot Function]