

## Product datasheet for **MG223980**

### Lyg2 (NM\_001033427) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lyg2 (NM\_001033427) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Lyg2  
**Synonyms:** Gm776  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223980 representing NM\_001033427  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCTCGGTGGTGTCTGGGGACTTATTGCTCTCGTTGGCACTGCCAAGGGCTCATATACTCACT  
CTGTGCACTCCATGAACCCTCATGTGCACCCTCGTCTGTACCATGGCTGCTATGGGGACATCATGACCAT  
GGAGACTTTTGGGGCCCCCTGCGACATAAATAATCTGATGAAGTGTGGGATCCACGGTTCGGAAATGTTT  
GCCGAGATGGATTTGAAAGCCATAAAACCTTACCGGATCCTCATCAAAGAAGTGGGGCAGAGACTGTA  
TTGACCCAGCCCTCATCGCTGCCATCATCTCCAGGGAAAGCCACGGCGGGGCTGTCTGCAAATGGCTG  
GGACCATAAGGGGCAGAGGTTTGGCTTGATGCAGCTTGATAAAAAATATGTACCATCCTATTGGTTCTCG  
GATAGCAAGGAACACCTTCTACAGTCTGTTGGGATTCTAACAGAAAGAATTAAGGCAATGAAGAGGAAAT  
TTCCCACCTGGAATACAGCTCAGCAGCTGAAAGGTGGTCTGACTGCTTTTAAGTCGGGGATGAAACTAT  
TGTCACCTGCAGACATAGACGGTGACTTAGTGGATGATGTCCTTGCCCGGGCCAAATCTATAAGAGA  
CATGGCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223980 representing NM\_001033427  
Red=Cloning site Green=Tags(s)

MVPSVVFVWGLIALVGTAKGSYTHSVHSMNPHVHPRLYHGCGYDIMITMETFGAPCDINLMNCGIHGSEMF  
 AEMDLKAIKPYRILIKEVQRHCIDPALIAAII SRESHGGAVLQNGWDHKQRFGLMQLDKNMYHPIGSW  
 DSKEHLLQSVGILTERIKAMKRKFPTWNTAQQLKGGLTAFKSGMETIVTPADIDGDLVDDVLRARAKFYKR  
 HGF

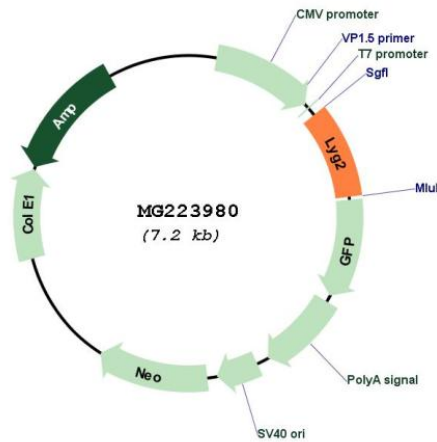
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001033427

**ORF Size:** 639 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001033427.3</a> , <a href="#">NP_001028599.1</a>
<b>RefSeq Size:</b>	2564 bp
<b>RefSeq ORF:</b>	642 bp
<b>Locus ID:</b>	332427
<b>UniProt ID:</b>	<a href="#">Q3V110</a>
<b>Cytogenetics:</b>	1 B
<b>Gene Summary:</b>	May act as a potent antibacterial protein that may play a role in the innate immunity. [UniProtKB/Swiss-Prot Function]