

## Product datasheet for MR201613

### Fgl1 (BC029734) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fgl1 (BC029734) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fgl1  
**Synonyms:** Mfire1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR201613 representing BC029734  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAAAGATTTACAGCTTCGCTCGCTGGTCCGATTGCTCTGATGATGGGAAGGAAGGTTGGGCCCTCG  
 AGAGTGAGAGCTGCTTGCAGGAGCAGGTAAGGCTCAGGGCTCAGGTGCACCAGCTTGAGACCCGGGTCAA  
 ACAACAACAGACCATGATTGCACAGCTCTGCATGAGAAGGAAGTCCAGTTTCTGGATAAAGGATCGGAG  
 AACAGTTTCATTGACCTTGGAGGCAAGAGGCAGTATGCAGATTGTTTCAGAGATTTACAATGACGGATTTA  
 AGCAGAGTGGATTTTACAAAATCAAACCTTTCAGAGCCTGGCAGAATTCTCTGTTTATTGTGACATGTC  
 TGATGGAGGGGGATGGACTGTAATTCAGAGACGATCTGATGGCAGTGAGAACTTTAACAGGGGTTGGAAT  
 GACTATGAAAAATGGCTTTGGAACTTTGTCCAAAACAATGGCGAATACTGGCTGGGTAACAAAACATTA  
 ACTTGCTAACTATTCAAGGAGACTACACTTTAAATCGACTGACAGATT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201613 representing BC029734  
 Red=Cloning site Green=Tags(s)

MGKIYSFVLVAIALMMGREGWALESESLREQVRLRAQVHQLETRVKQQQTMIQLLHEKEVQFLDKGSE  
 NSFIDLGGKRQYADCSEIYNDGFKQSGFYKIKPLQSLAEF SVYCDMSDGGGWTVIQRRSDGSENFNRGWN  
 DYENGFNGFVQNGEYWLGNKNINLLTIQGDYTLNRPDRF

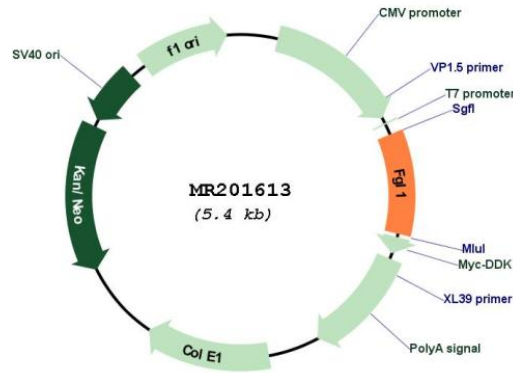
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: BC029734

ORF Size: 540 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.

<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="#">BC029734.1</a></u>
<b>RefSeq Size:</b>	1104 bp
<b>RefSeq ORF:</b>	542 bp
<b>Locus ID:</b>	234199
<b>Cytogenetics:</b>	8 A4
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	Immune suppressive molecule that inhibits antigen-specific T-cell activation by acting as a major ligand of LAG3 (PubMed:30580966). Responsible for LAG3 T-cell inhibitory function (PubMed:30580966). Binds LAG3 independently from MHC class II (MHC-II) (PubMed:30580966). In addition to its role in inhibiting inflammatory immune responses, also plays a role in hepatocytes (By similarity). Under normal physiological conditions, primarily secreted from hepatocytes and contributes to its mitogenic and metabolic functions (By similarity).[UniProtKB/Swiss-Prot Function]