

## Product datasheet for **MG222276**

### **Klrg1 (NM\_016970) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Klrg1 (NM\_016970) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Klrg1  
**Synonyms:** 2F1-Ag; MAFA; MAFA-L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222276 representing NM\_016970  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGACAGCTCTATCTATTCAACACTAGAGCTGCCGGAGGCACCTCAAGTCCAAGATGAGTCCAGAT  
GGAAGCTCAAAGCTGTCTTACACCGCCCCATCTTTCCCGCTTTGCAATGGTGGCTTTGGGGCTTTTGAC  
TGTGATTCTCATGAGTCTACTGATGTATCAACGGATCCTGTGCTGCGGCTCAAGGACTCTACATGTTCC  
CACTGCCCCAGCTGCCCCATCCTCTGGACGAGGAATGGTAGCCACTGTTACTATTTTTCAATGGAGAAAA  
AGGACTGGAATTCTAGTCTGAAATCTGTGCAGACAAAGGCTCACATCTCCTTACATTTCCGGACAACCA  
GGGAGTGTCTGTTGGAGAGTACCTGGGTACGACTTTTACTGGATCGGCTTGAGGAACATTGATGGCTGG  
AGGTGGGAAGGGCGCCAGCGCTCAGCTTGAGGATTCTTACCAACAGCTTGATACAGAGGTGCGGTGCCA  
TTCACAGAAATGGCTCCAAGCCTCCAGTTGTGAAGTTGCTTGCAGTGGATCTGTAAGAAGTCTATATA  
C

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG222276 representing NM\_016970  
Red=Cloning site Green=Tags(s)

MADSSIYSTLELPEAPQVQDESRLKAVLHRPHLSRFAMVALGLLTVILMSLLMYQRILCCGSKDSTCS  
HCPSCPILWTRNGSHCYFYSMEKKDWNSSLKFCADKGSLLTFPDNQGVLFGEYLGQDFYWIGLRNIDGW  
RWEGGPALSRLILTNSLIQRCAIHRNGLQASSCEVALQWICKKVLV

**TRTRPLE** - GFP Tag - V

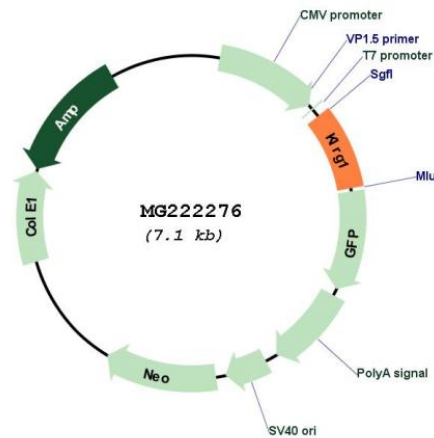
**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_016970

**ORF Size:** 564 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\\_016970.1](#), [NP\\_058666.1](#)

**RefSeq Size:** 1374 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 50928

**UniProt ID:** [O88713](#)

**Cytogenetics:** 6 57.52 cM

**Gene Summary:** Plays an inhibitory role on natural killer (NK) cells and T-cell functions upon binding to their non-MHC ligands. May mediate missing self recognition by binding to a highly conserved site on classical cadherins, enabling it to monitor expression of E-cadherin/CDH1, N-cadherin/CDH2 and R-cadherin/CDH4 on target cells.[UniProtKB/Swiss-Prot Function]