

## Product datasheet for **RG219705**

### **KLRG1 (NM\_005810) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KLRG1 (NM\_005810) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KLRG1  
**Synonyms:** 2F1; CLEC15A; MAFA; MAFA-2F1; MAFA-L; MAFA-LIKE  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG219705 representing NM\_005810  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTGACAGTGTATTATTTATCCATGTTAGAGTTGCCTACGGCAACCCAAGCCAGAATGACTATGGAC  
 CACAGCAAAAATCTTCTCTTCCAGGCCTTCTTGTCTTGCCCTGTGGCAATAGCTTTGGGGCTTCTGAC  
 TGCAGTCTTCTGAGTGTCTGTATACCAGTGGATCCTGTGCCAGGGCTCCAATACTCCACTTGTGCC  
 AGCTGTCTAGCTGCCAGACCCTGGATGAAATATGGTAACCATTGTTATTATTCTCAGTGGAGGAAA  
 AGGACTGGAATTCTAGTCTGGAATCTGCCTAGCCAGAGACTCACACCTCCTTGTGATAACGGACAATCA  
 GGAATGAGCCTGCTCCAAGTTTCTCCTCAGTGGCCCTTTGCTGGATTGGTCTGAGGAACAATTCTGGC  
 TGGAGGTGGGAAGATGGATCACCTCTAACTTCTCAAGGATTTCTTAATAGCTTTGTGACAGCATGCG  
 GTGCCATCAACAAAAATGGTCTTCAAGCCTCAAGCTGTGAAGTTCCTTTACACTGGGTGTGAAGAAGGT  
 CAGACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG219705 representing NM\_005810  
 Red=Cloning site Green=Tags(s)

MTDSVIYSMLELPTATQAQNDYGPQQKSSSSRPSCSCLVAIALGLLTAVLLSVLLYQWILCQGSNYSTCA  
 SCPSPDRWMKYGNHCYFVSVEEKDWNSSLEFCLARDSHLLVITDNQEMSLQVFLSEAFQWIGLRNNSG  
 WRWEDGSPLNFSRISNSFVQTCGAINKNGLQASSCEVPLHWVCKKVR

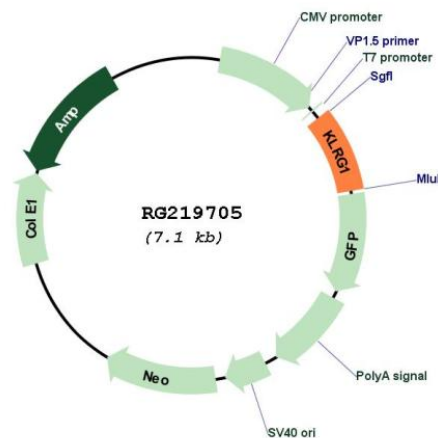
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_005810

**ORF Size:** 567 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\\_005810.4](#)

**RefSeq Size:** 1815 bp

**RefSeq ORF:** 570 bp

**Locus ID:** 10219

**UniProt ID:** [Q96E93](#)

**Cytogenetics:** 12p13.31

**Protein Families:** Transmembrane

**Gene Summary:** Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. The protein encoded by this gene belongs to the killer cell lectin-like receptor (KLR) family, which is a group of transmembrane proteins preferentially expressed in NK cells. Studies in mice suggested that the expression of this gene may be regulated by MHC class I molecules. [provided by RefSeq, Jun 2016]