

Product datasheet for MR222276

Klrg1 (NM_016970) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klrg1 (NM_016970) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Klrg1
Synonyms: 2F1-Ag; MAFA; MAFA-L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222276 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTGACAGCTCTATCTATTCAACACTAGAGCTGCCGGAGGCACCTCAAGTCCAAGATGAGTCCAGAT
 GGAAGCTCAAAGCTGTCTTACACCGGCCCATCTTTCCCGCTTTGCAATGGTGGCTTTGGGGCTTTGAC
 TGTGATTCTCATGAGTCTACTGATGTATCAACGGATCCTGTGCTGCGGCTCAAGGACTCTACATGTTCC
 CACTGCCCCAGCTGCCCATCCTCTGGACGAGGAATGGTAGCCACTGTTACTATTTTCAATGGAGAAAA
 AGGACTGGAATTCTAGTCTGAAATCTGTGCAGACAAAGGCTCACATCTCCTTACATTTCCGGACAACCA
 GGGAGTGTGTTGGAGAGTACCTGGGTACGACTTTTACTGGATCGGCTTGAGGAACATTGATGGCTGG
 AGGTGGGAAGGCCGCCAGCGCTCAGCTTGAGGATTCTTACCAACAGCTTGATACAGAGGTGCGGTGCCA
 TTCACAGAAATGGCTCCAAGCCTCCAGTTGTGAAGTTGCTTGCAGTGGATCTGTAAGAAGTCTTATA
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222276 protein sequence
 Red=Cloning site Green=Tags(s)

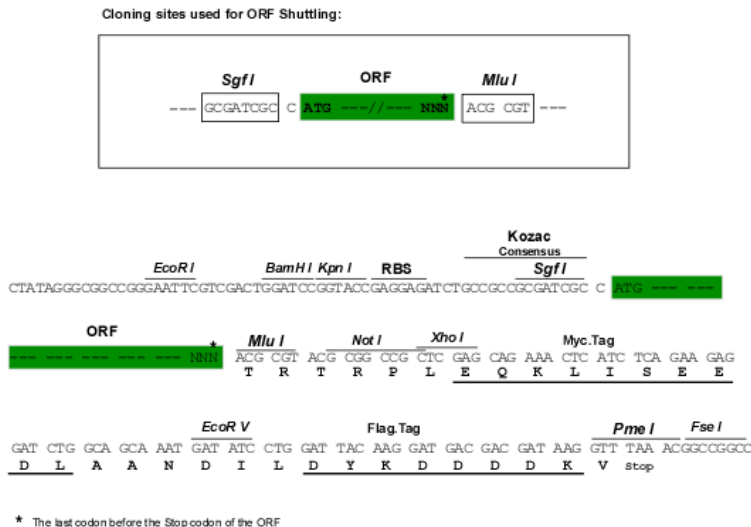
MADSSIYSTLELPEAPQVQDESRWKLKAVLHRPHLSRFAMVALGLLTVILMSLLMYQRILCCGSKDSTCS
 HCPSCPILWTRNGSHCYFYSMEKKDWNSSLKFCADKGSLLTFPDNQGVLFGEYLGQDFYWIGLRNIDGW
 RWEGLPALSLRILTNSLIQRGAIHRNGLQASSCEVALQWICKKVLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



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

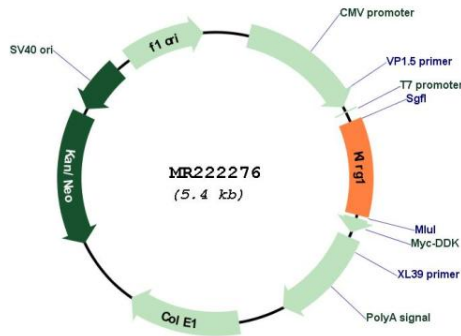
UniProt ID: [O88713](#)

Cytogenetics: 6 57.52 cM

MW: 21.3 kDa

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]

Product images:



Circular map for MR222276