

Product datasheet for **RR201739**

Klrb1c (NM_001085403) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klrb1c (NM_001085403) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klrb1c
Synonyms:	Klrb1f; NKR-P1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201739 representing NM_001085403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACACATCAAGAGTCTATGGTAATGTAAAGACATTTAGGTCTCCAGGGCATAAGCAAGCATCATTCC
CATCTCTCTCCACAGATGCTTGTCGGTGCCCACTGGCATCATTTGGCTCTGAAACTTGGCTGTGCTAC
GCTGATCCTTCTTCTCTTGACCCTGATTGGACTCAGTGTCTTCGTGAGATTCCTAGTGCAAAAACCACTA
ATAGAAAAATGCAGTATGGCTGCTCAAGAGAATGGGACTGAACCAACAGGGAGATCAGCCATACTAGAAT
GCCCGAGACATTGGCAACCACACCGGAACAAATGCTTAATTATTTCTCAAATTTCCAGACCTTGGGCAGA
AGGTCTAGTTGCCTGTTCTATGAAAGAAGCCACTTTGTTGATCATTGAAAATGAAGAAGAACTGAAGTTT
GTGCAGAACATTTTAAAGGGAAGACAGCAGTTATTTTTATTGGACTAAATTATGTACAAACGGAGATGA
CCTGGAAGTGGATAAATGGCTCTGTTTTAAAGCCTAACATATTACGGATCACTGGTTCGGAGGTAGAGAA
CAGCTGTGCCCTCATCTCACACACAGAAGTGTTCAGATTCTGTTCTTCAGACAACCATTGGATCTGC
CAAAGACCCTGAAACATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR201739 representing NM_001085403

Red=Cloning site Green=Tags(s)

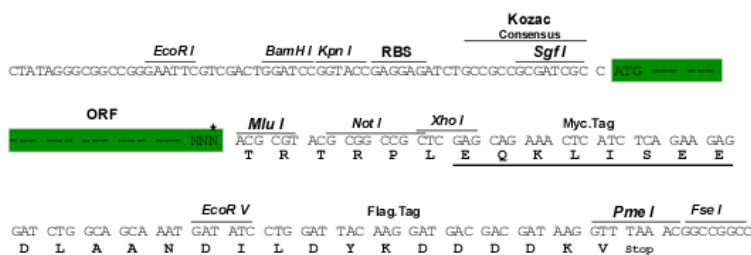
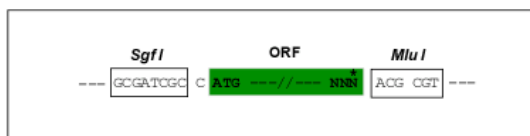
MDTSRVYGVNKTFRSPGHKQASFPSLSTDACRCPHWHHLALKLGCATLILLLLTLIGLSVFVRFLVQKPL
IEKCSMAAQENGTEPTGRSAILECPRHWPQPHRNKCLIIISQISRPWAEGLVACSMKEATLLIIEENEELKF
VQNILKGRQQLFFIGLNYVQTEMTWKWINGSVLKPNILRITGSEVENSICALISHTEVFSDSCSSDNHWIC
OKTLKHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001085403

ORF Size: 651 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_001085403.1](#), [NP_001078872.1](#)

RefSeq Size: 654 bp

RefSeq ORF: 654 bp

Locus ID: 683758

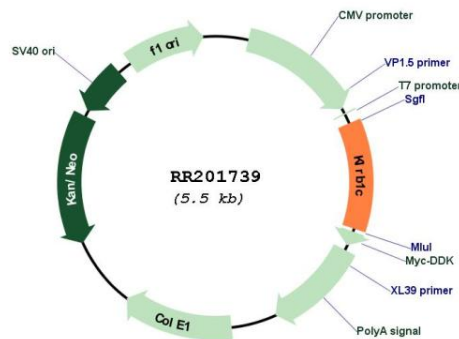
UniProt ID: [Q63378](#)

Cytogenetics: 4q42

MW: 24.5 kDa

Gene Summary: Binds CLEC2I/Clr-g leading to activation of natural killer cells or stimulation of IL-2 production and proliferation of T-cells in response to antigen stimulation. May contribute to the formation of the immunological synapse between T-cells and antigen-presenting dendritic cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201739