

Product datasheet for **MR217102**

Klrb1a (NM_010737) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klrb1a (NM_010737) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klrb1a
Synonyms:	ly-55A; Ly55a; NKR-P1.7; NKR-P1A; Nkrp1-a; Nkrp1a; NKRP12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217102 representing NM_010737 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCTCCTATGCACAATGGACACAGCAAGGGTCTACTTTGGTTTAAAGCCACCCAGGACTCCAGGGG
CTTGCCATGAGTCACCCCATCTCTCCCCAGATGCCTGTGGTGCCACGTTACACAGGTTGGCTCT
GAAGCTCAGCTGTGCTGGGCTCATCCTCCTTGTCTGACCCCTGATTGGGATGAGTGTTTTAGTGCGAGTC
CTAATACAAAAACCATCAATAGAAAAATGCTATGTGCTTATTCAAGAGAACCTGAATAAAACAACAGATT
GTTCAAGTAAGCTAGAGTGCCCAAGACTGGCTTTCACACCGAGATAAGTGCTTTCACGTTTCTCAAGT
TTCCAACACTTGGGAGGAAGGTCTAGTTGATTGTGATGGAAAAGGAGCCACTTTGATGCTCATTCAAGAC
CAAGAAGAACTGAGATTCTACTGGACTCAATAAAGGAAAAATACAATTCATTTGGATTGGACTAAGGT
ACACATTGCCAGACATGAACTGGAAGTGGATAAATGGATCGACTTTAAATCTGATGATTAATAATCAC
TGGTGACTGAAAAATGACAGCTGTGCTGCTATCTCAGGAGACAAAGTGACTTTTGAGAGCTGTAATTCA
GACAACCGTTGGATCTGCCAAAAGGAATATACCATGAAACCCTGAGCAACTATGTGGTTATGGACAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217102 representing NM_010737
 Red=Cloning site Green=Tags(s)

MHLLCTMDTARVYFGLKPPRTPGAWHESPPSLPPDACRCPRSHRLALKLSCAGLILLVVTLLIGMSVLVRY
 LIQKPSIEKCYVLIQENLNKTTDCSAKLECPQDWLSHRDKCFHVSQVSNWEEGLVDCDGKATLMLIQD
 QEELRFLLDSDIKEKYNFWIGLRYTL PDMNWKWINGSTLNSDVLKITGDTENDSCAAISGDKVTFESCNS
 DNRWICQKELYHETLSNYVGYGH

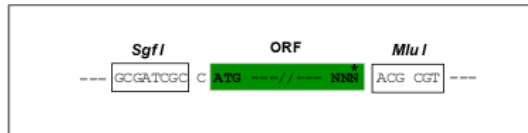
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9058_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010737

ORF Size: 699 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_010737.3](#), [NP_034867.3](#)

RefSeq Size: 1284 bp

RefSeq ORF: 702 bp

Locus ID: 17057

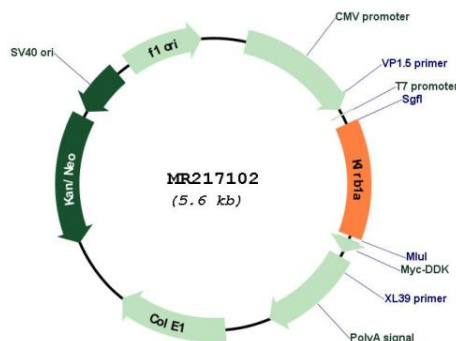
UniProt ID: [P27811](#)

Cytogenetics: 6 63.06 cM

MW: 26.4 kDa

Gene Summary: Plays a stimulatory role on natural killer (NK) cell cytotoxicity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217102