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Product datasheet for RG216459

CD161 (KLRB1) (NM_002258) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD161 (KLRB1) (NM_002258) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD161
Synonyms:	CD161; CLEC5B; hNKR-P1A; NKR; NKR-P1; NKR-P1A; NKRP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216459 representing NM_002258.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCAACAAGCAATATATGCTGAGTTAAACTTACCCACAGACTCAGGCCCAGAAAGTTCTTCACCT
TCATCTCTTCCTCGGGATGTCTGTCAGGGTTCACCTTGGCATCAATTTGCCCTGAAACTTAGCTGTGCT
GGGATTATTCTCCTTGTCTTGGTTGTTACTGGGTTGAGTGTTTCAGTGACATCCTTAATACAGAAATCA
TCAATAGAAAAATGCAGTGTGGACATTCAACAGAGCAGGAATAAAACAACAGAGAGACCGGGTCTCTTA
AACTGCCCAATATATTGGCAGCAACTCCGAGAGAAATGCTTGTTATTTTCTCACACTGTCAACCCTTGG
AATAACAGTCTAGCTGATTGTTCCACCAAAGAATCCAGCCTGCTGCTTATTCGAGATAAGGATGAATTG
ATACACACACAGAACCTGATACGTGACAAAGCAATTCTGTTTTGGATTGGATTAAATTTTTCATTATCA
GAAAAGAACTGGAAGTGGATAAACGGCTCTTTTTTAAATTCTAATGACTTAGAAATTAGAGGTGATGCT
AAAGAAAACAGCTGTATTTCCATCTCACAGACATCTGTGTATTCTGAGTACTGTAGTACAGAAATCAGA
TGGATCTGCCAAAAAGAACTAACACCTGTGAGAAATAAAGTGTATCCTGACTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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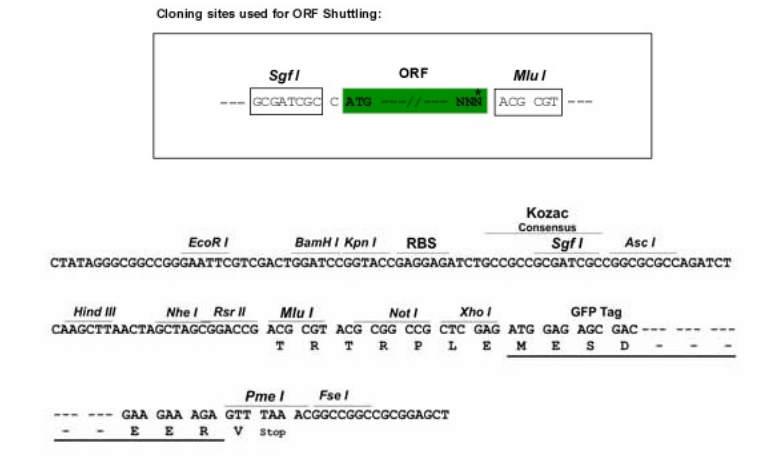
Protein Sequence:

>Peptide sequence encoded by RG216459
Blue=ORF Red=Cloning site Green=Tag(s)

MDQQAIYAELNLPTDSGPESSSPSSLPRDVCQGSPWHQFALKLSCAGIILLVLVVTGLSVSVTSLIQKS
SIEKCSVDIQQSRNKTTERPGLLNCPIYWQQLREKCLLFSHTVNPWNNSLADCSTKESSLLLIRDKDEL
IHTQNLIRDKAILFWIGLNFSLSEKNWKWINGSFLNSNDLEIRGDAKENSCISISQTSVYSEYCSTEIR
WICQKELTPVRNKVYPDS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002258

ORF Size: 621 bp

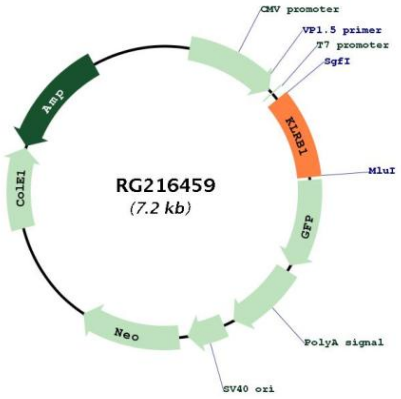
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002258.3
RefSeq Size:	740 bp
RefSeq ORF:	678 bp
Locus ID:	3820
UniProt ID:	Q12918
Cytogenetics:	12p13.31
Protein Families:	Transmembrane
MW:	25.4 kDa
Gene Summary:	Natural killer (NK) cells are lymphocytes that mediate cytotoxicity and secrete cytokines after immune stimulation. Several genes of the C-type lectin superfamily, including the rodent NKRP1 family of glycoproteins, are expressed by NK cells and may be involved in the regulation of NK cell function. The KLRB1 protein contains an extracellular domain with several motifs characteristic of C-type lectins, a transmembrane domain, and a cytoplasmic domain. The KLRB1 protein is classified as a type II membrane protein because it has an external C terminus. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216459