

Product datasheet for **RC236340**

KLRF1 (NM_001291822) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KLRF1 (NM_001291822) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KLRF1
Synonyms: CLEC5C; NKp80
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC236340 representing NM_001291822
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGATGAAGAAAGATACATGACATTGAATGTACAGTCAAAGAAAAGGAGTTCTGCCCAAACATCTC
AACTTACATTTAAAGATTATTCAGTGACGTTGCACTGGTATAAAATCTTACTGGGAATATCTGGAACCGT
GAATGGTATTCTCACTTTGACTTTGATCTCCTTGATCCTGTTGGTACTATGCCAATCAGAATGGCTCAA
TACCAAGGGAAGTGTATTGGTTCTCTAATGAGATGAAAAGCTGGAGTGACAGTTATGTGTATTGTTGG
AAAGAAAATCTCATCTACTAATCATACATGACCAACTTGAAATGGCTTTTATACAGAAAAACCTAAGACA
ATTAAACTACGTATGGATTGGGCTTAACCTTACCTCCTTGAAAATGACATGGACTTGGGTGGATGTTCT
CCAATAGATTCAAAGATATTCTTCATAAAGGGACCAGCTAAAGAAAACAGCTGTGCTGCCATTAAGGAAA
GCAAAATTTTCTCTGAAACCTGCAGCAGTGTTTCAAATGGATTGTGAGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236340 representing NM_001291822
Red=Cloning site **Green**=Tags(s)

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTLTLISLILLVLCQSEWLK
YQKCYWFSNEMKSWSDSYVYCLERKSHLLIIHDQLEMAFIQKNLRQLNYVWIGLNFSLKMTWTWVDGS
PIDSKIFFIKGPAKENSAAIKESKIFSETCSSVFKWICQY

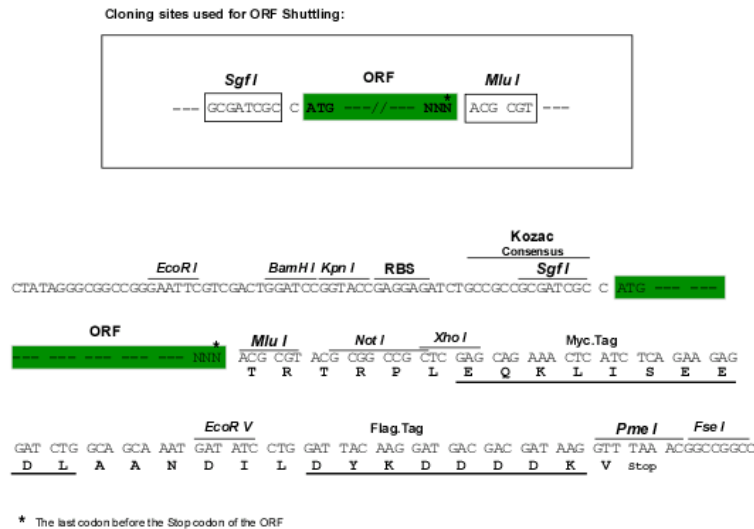
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001291822

ORF Size: 543 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_001291822.2](#)

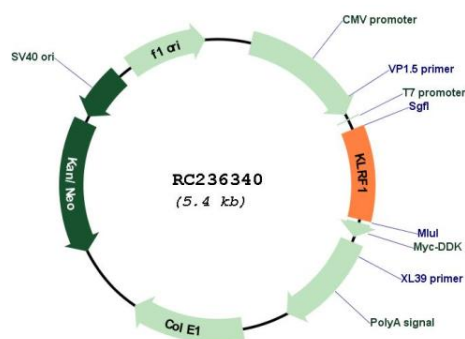
RefSeq Size: 1116 bp

RefSeq ORF: 546 bp

Locus ID: 51348

UniProt ID:	<u>Q9NZS2</u>
Cytogenetics:	12p13.31
Protein Families:	Transmembrane
MW:	21.7 kDa
Gene Summary:	KLRF1, an activating homodimeric C-type lectin-like receptor (CTLR), is expressed on nearly all natural killer (NK) cells and stimulates their cytotoxicity and cytokine release (Kuttruff et al., 2009 [PubMed 18922855]).[supplied by OMIM, Oct 2009]

Product images:



Circular map for RC236340