

Product datasheet for **RC234094**

KIR3DL2 (NM_001242867) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR3DL2 (NM_001242867) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIR3DL2
Synonyms:	3DL2; CD158K; KIR-3DL2; NKAT-4; NKAT4; NKAT4B; p140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234094 representing NM_001242867
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCACGGTCGTCAGCATGGCGTGCCTGGGTTCTTCTGCTGCAGGGGGCTGGCCACTCATGG
 GTGGTCAGGACAAACCTTCCTGTCTGCCCGCCAGCACTGTGGTGCCTCGAGGAGACACGTGGCTCT
 TCAGTGTCACTATCGTCGTGGGTTAAACAATTTATGCTGTACAAAGAAGACAGAAGCCACGTTCCCATC
 TTCCACGGCAGAAATATCCAGGAGAGCTTCATCATGGGCCTGTGACCCAGCACATGCAGGGACCTACA
 GATGTCGGGGTTCAGGCCACACTCCCTCACTGGGTGGTGGCACCCAGCAACCCCTGGTGATCATGGT
 CACAGGAAACCACAGAAAACCTTCCTCCTGGCCACCCAGGGCCCTGCTGAAATCAGGAGAGACAGTC
 ATCCTGCAATGTTGGTCAGATGCATGTTTGGACTTCTTTCTGCACAGAGAGGGGATCTCTGAGGACC
 CCTCACGCCTCGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAACTTCCATCGGTCCCTTGATGCC
 TGTCTTGCAGGAACCTACAGATGTTATGGTTCTGTTCCCTCACTCCCCTATCAGTTGTCAGCTCCCAGT
 GACCCCTGGACATCGTGATCACAGGTCTATATGAGAAACCTTCTCTCAGCCAGCCGGGCCCCACGG
 TTCAGGCAGGAGAGAACGTGACCTTGCCTGTAGCTCCTGGAGCTCCTATGACATCTACCATCTGTCAG
 GGAAGGGGAGGCCATGAACGTAGGCTCCGTGCAGTGCCCAAGGTCAACAGAACATTCCAGGCAGACTTT
 CCTCTGGGCCCTGCCACCCACGGAGGGACCTACAGATGCTTCGGCTCTTCCGTGCCCTGCCCTGCGTGT
 GGTCAAACCAAGTGACCACTGCTTGTCTGTACAGGTATCTGCAGACACCTGCATGTTCTGATTGG
 GACCTCAGTGGTCATCTTCTTATCCTCCTCCTCTTCTTCTCCTTTATCGCTGGTGTCCAACAAA
 AAGAATGCTGCTGAATGGACCAAGAGCCTGCGGGGACAGAACAGTGAATAGGCAGGACTCTGATGAAC
 AAGACCCCTCAGGAGGTGACGTACGCACAGTTGGATCACTGCGTTTTATACAGAGAAAAATCAGTCGCC
 TTCTCAGAGGCCCAAGACACCCCTAACAGATACCAGCGTGTACAGGAACTTCCAATGCTGAGCCAG
 TCCAAGTTGCTCCTGCCACGAGACCACAGTCAGGTCTTGAGGGGTTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234094 representing NM_001242867
 Red=Cloning site Green=Tags(s)

MSLTVVSMACVGFLLQGAWPLMGGQDKPFLSARPSTVVPRGGHVALQCHYRRGFNNFMLYKEDRSHVPI
 FHGRIFQESFIMGPVTPAHAGTYRCRGRPHSLTGWSAPSNPLVIMVTGNHRKPSLLAHPGPLLKSGETV
 ILQCWSDVMFEHFFLHREGISEDPSRLVGQIHDGVSKANFSIGPLMPVLAGTYRCYGSVPHSPYQLSAPS
 DPLDIVITGLYEKPSLSAQPGPTVQAGENVTLSCSSWSSYDIYHLSREGEAHERRLRVAVPKVNRFTQADF
 PLGPATHGGTYRCFGSFRALPCVWSNSSDPLLVSVTGICRHLHVLIGTSVVIFLFIILLFFLLYRWCSNK
 KNAAVMDQEPAGDRTVNRQDSEQDPQEVTYAQLDHCVF IQRKISRPSQRPKTPLTDTSVYTELPNAEPR
 SKVVSCPRAPQSGLEGVF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242867

ORF Size: 1314 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_001242867.2](#)
RefSeq Size: 1834 bp

RefSeq ORF: 1317 bp

Locus ID: 3812

UniProt ID: [P43630](#)
Cytogenetics: 19q13.42

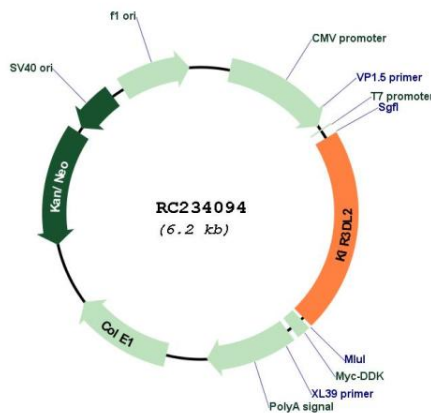
Protein Families: Transmembrane

Protein Pathways: Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity

MW: 49 kDa

Gene Summary: Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC234094