

Product datasheet for **RG234094**

KIR3DL2 (NM_001242867) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIR3DL2 (NM_001242867) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KIR3DL2
Synonyms: 3DL2; CD158K; KIR-3DL2; NKAT-4; NKAT4; NKAT4B; p140
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG234094 representing NM_001242867
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCTCACGGTCGTCAGCATGGCGTGC GTTGGGTTCTTCTTGCTGCAGGGGGCCTGGCCACTCATGG
 GTGGTCAGGACAAACCCCTCCTGTCTGCCCGCCAGCACTGTGGTGCCTCGAGGAGGACACGTGGCTCT
 TCAGTGTCACTATCGTCGTGGGTTAAACAATTCATGCTGTACAAAGAAGACAGAAGCCACGTTCCCATC
 TTCCACGGCAGAATATCCAGGAGAGCTTCATCATGGGCCCTGTGACCCAGCACATGCAGGGACCTACA
 GATGTCGGGGTTCAGCCACACTCCCTCACTGGGTGGTCCGCACCCAGCAACCCCTGGTGATCATGGT
 CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCACCCAGGGCCCTGCTGAAATCAGGAGAGACAGTC
 ATCCTGCAATGTTGGTCAGATGTCATGTTTGAGCACTTCTTTCTGCACAGAGAGGGGATCTCTGAGGACC
 CCTCACGCCTCGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAAGCTTCTCCATCGGTCCCTTGATGCC
 TGTCTTGCAGGAACCTACAGATGTTATGGTCTGTTCTCACTCCCCATCAGTTGTCAGCTCCCAGT
 GACCCCTGGACATCGTGATCACAGTCTATATGAGAAACCTTCTCTCAGCCAGCCGGGCCCCACGG
 TTCAGGCAGGAGAGAACGTGACCTTGTCTGTAGCTCCTGGAGCTCCTATGACATCTACCATCTGTCCAG
 GGAAGGGGAGGCCATGAACGTAGGCTCCGTGCAGTGCCCAAGGTCAACAGAACATCCAGGCAGACTTT
 CCTCTGGGCCCTGCCACCCAGGAGGACCTACAGATGCTTCGGCTCTTCCGTGCCCTGCCCTGCGTGT
 GGTCAAAACCTCAAGTGACCCACTGCTTGTCTGTACAGGTATCTGCAGACACCTGCATGTTCTGATTGG
 GACCTCAGTGGTCATCTTCTTCTCATCTCCTCCTCTTCTTTCTCCTTTATCGTGGTGTCCAACAAA
 AAGAATGCTGCTGTAATGGACCAAGAGCCTGCGGGGACAGAACAGTGAATAGGCAGGACTCTGATGAAC
 AAGACCCCTCAGGAGGTGACGTACGCACAGTTGGATCACTGCGTTTTATACAGAGAAAAATCAGTCGCC
 TTCTCAGAGGCCCAAGACACCCCTAACAGATACCAGCGTGTACACGGAACCTCCAATGCTGAGCCAGA
 TCCAAAGTTGTCTCCTGCCACGAGCACCACAGTCAGGTCTTGAGGGGTTTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234094 representing NM_001242867
Red=Cloning site Green=Tags(s)

MSLTVVSMACVGFLLQGAWPLMGGQDKPFLSARPSTVVPRGGHVALQCHYRRGFNNFMLYKEDRSHVPI
 FHGRIFQESFIMGPVTPAHAGTYRCRGRPHSLTGWSAPSNPLVIMVTGNHRKPSLLAHPGLLKSGETV
 ILQCWSDVMFEHFFLHREGISEDPSRLVGQIHDGVSKANFSIGPLMPVLAGTYRCYGSVPHSPYQLSAPS
 DPLDIVITGLYEKPSLSAQPGPTVQAGENVTLSCSSWSSYDIYHLSREGEAHERRLRVAVPKVNRFTQADF
 PLGPATHGGTYRCFGSFRALPCVWSNSSDPLLVSVTGICRHLHVLIGTSVVIIFLFLILLFFLLYRWCSNK
 KNAAVMDQEPAGDRTVNRQDSDEQDPQEVTYAQLDHCVFIQRKISRPSQRPKTPLTDTSVYTELPNAEPR
 SKVYVSCPRAPQSGLEGVF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

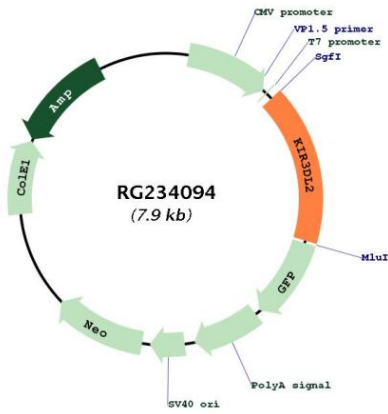
Cytogenetics: 19q13.42

Protein Families: Transmembrane

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

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 RG234094