

Product datasheet for **RC224383**

Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM_153443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM_153443) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Killer cell immunoglobulin like receptor 3DL3
Synonyms:	CD158Z; KIR3DL7; KIR44; KIRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224383 representing NM_153443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGTTCTTCTTGCTGGAGGGGCCCTGGCCACATGTGG
 GTGGTCAGGACAAGCCCTTCTCTGCTGCTGGCCGGCACTGTGGTGTCTGAAGGACAACATGTGACTCT
 TCAGTGTGCTCTCGTCTTGGGTTAACGAATTAGTCTGTCCAAGAAGACGGGATGCCTGTCCCTGAG
 CTCTACAACAGAAATATCCGGAACAGCTTTCTCATGGCCCTGTGACCCAGCACATGCAGGGACCTACA
 GATGTTGCAGTTCACACCCACACTCCCCACTGGGTGGTCGGCACCCAGCAACCTGTGGTGATCATGGT
 CACGGGAGTCCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTGAATCGGGAGAGACGGTC
 ATCCTGCAATGTTGGTCAGATGTCAGGTTTGGCGCTTCTTCTGCACAGAGAGGGGATCACTGAGGACC
 CCTTGGCCTCGTTGGACAGCTCCAGATGCGGGTTCCAGGTCAACTATCCATGGTCCCATGACACC
 TGCCCTTGCAAGGACCTACAGATGCTTTGGTTCTGTCACTCACTACCCTATGAGTTGTCGGCTCCCAGT
 GACCCTCTGGACATCGTGGTCTAGGTCTATATGGGAAACCTTCTCTCTCAGCCAGCCGGGCCCCACGG
 TTCAGGCAGGAGAGAATGTGACCTTGCCTGCAGCTCCCGGAGCTTGTGGACATTTACCATCTATCCAG
 GGAGGCAGAGGCCGGTGAACCTTAGGCTCACTGCGGTGCTGAGGGTCAATGGAACATTCCAGGCCAACTTC
 CCTCTGGGCCCTGTGACCCACGGAGGGAACACAGATGCTTCGGCTCTTCCGTGCCCTGCCCCACGCGT
 GGTGACACCCGAGTGACCCACTGCCGTTTCTGTACAGGTAACCCAGACACCTGCACGTTCTGATTGG
 GACCTCAGTGGTCATCATCCCTTTGCTATCCTCCTCTTCTTCTCCTTCATCGTGGTGTGCCAACAAA
 AAGAAATGCTGTTGAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCTGATGAAC
 AAGACCCTCAGGAGGTGACATACGCACAGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCGCCC
 TTCTCAGAGGCCCAAGACACCCCAACAGATACCAGCGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC224383 representing NM_153443
 Red=Cloning site Green=Tags(s)

MSLMVSMACVGFLLLEGPWPHVGGQDKPFLSAWPGTVVSEGHVTLQCRSLGFNEFSLSKEDGMPVPE
 LYNRIFRNSFLMGPVTPAHAGTYRCCSSPHSPTGWSAPSNPVVIMVTGVHRKPSLLAHPGLVKSGETV
 ILQCWSDVRFERFLLHREGITDPLRLVGQLHDAGSQVNYSMGPMTPALAGTYRCFVSVTHLPYELSA
 PSLDPLDIVVGLYGKPSLSAQPGPTVQAGENVTLSCSSRSLFDIYHLSREAEAGELRLTAVLRVNGTFQANF
 PLGPVTHGGNYRCFGSFRALPHAWSDPDPVSVTGNSRHLHVLIGTSVVIIPFAILLFLLHRWCANK
 KNAVVMQEPAGNRTVNREDSDEQDPQEVTYAQLNHCVFTRKIRTPSRPKTPPTDTSV

SGP**TRTRRLEQKLI**SEEDLAANDILDYKDDDDKV

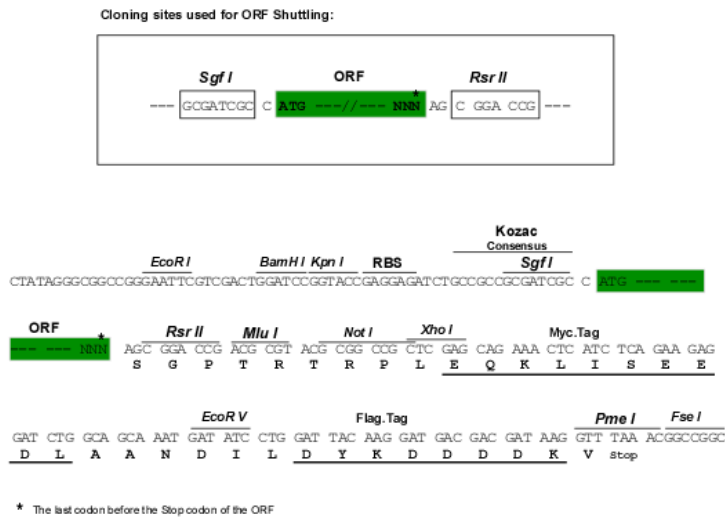
Chromatograms:

https://cdn.origene.com/chromatograms/mk8012_f11.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_153443

ORF Size: 1230 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_153443.2](#), [NP_703144.2](#)

RefSeq Size: 1691 bp

RefSeq ORF: 1233 bp

Locus ID: 115653

Cytogenetics: 19q13.42

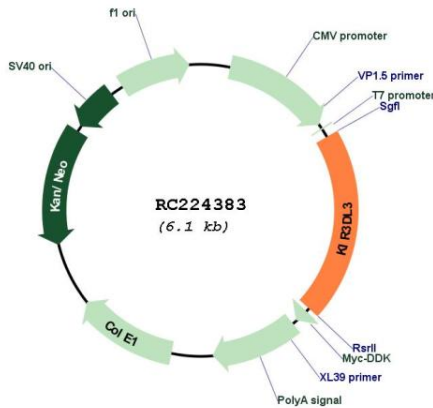
Protein Families: Transmembrane

Protein Pathways: Antigen processing and presentation

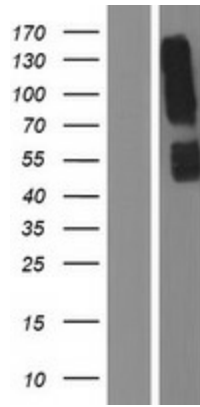
MW: 44.7 kDa

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224383



Western blot validation of overexpression lysate (Cat# [LY407095]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224383 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).