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Product datasheet for RC224158

KIR3DS1 (NM_001083539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR3DS1 (NM_001083539) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIR3DS1
Synonyms:	CD158E2; KIR-123FM; KIR-G1; NKAT-10; NKAT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224158 representing NM_001083539
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTGTTCTTGGTCCAGAGGGCCGGTCCACACATGG
GTGGTCAGGACAAGCCCTTCCTGTCTGCCTGGCCCAGCGCTGTGGTGCCTCGCGGAGGACACGTGACTCT
TCGGTGTCACTATCGTCATAGGTTTAACAATTTCATGCTATACAAAGAAGACAGAATCCACGTTCCCATC
TTCCATGGCAGAATATTCCAGGAGGGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAACTACA
CATGTCGGGGTTCACACCCACACTCCCCCACTGGGTGGTCGGCACCCAGCAACCCCATGGTGATCATGGT
CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCTGGTGAAATCAGGAGAGAGAGTC
ATCCTGCAATGTTGGTCAGATATCATGTTTGAGCACTTCTTTCTGCACAAAGAGTGGATCTCTAAGGACC
CCTCACGCCTCGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGGTTCCATGATGCG
TGCCCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACACCCCCTATCAGTTGTCAGCTCCCAGT
GATCCCCTGGACATCGTGGTCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAAGG
TTCAGGCAGGAGAGAGCGTGACCTTGTCCTGTAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAG
GGAGGGGGGAGCCCATGAACGTAGGCTCCCTGCAGTGCGCAAGGTCAACAGAACATTCCAGGCAGATTTC
CCTCTGGGCCCTGCCACCCACGGAGGGACCTACAGATGCTTCGGCTCTTTCCGTCACTCTCCCTACGAGT
GGTCAGACCCGAGTGACCCACTGCTTGTTTCTGTCACAGGAAACCCTTCAAGTAGTTGGCCTTCACCCAC
AGAACCAAGCTCCAAATCTGGTAACCTCAGACACCTGCACATTCTGATTGGGACCTCAGTGGTCAAAATC
CCTTTCACCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTGCTCCAACAAAAAAAAATGCTGCTGTAATG
GACCAAGAGCCTGCAGGGAACAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224158 representing NM_001083539
Red=Cloning site Green=Tags(s)

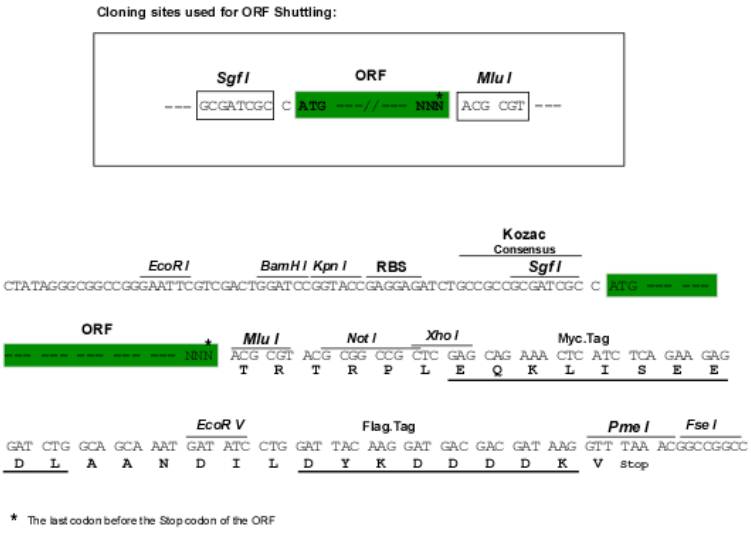
MLLMVVSMACVGLFLVQRAGPHMGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMLYKEDRIHVPI
FHGRIFQEGFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPMVIMVTGNHRKPSLLAHPGPLVKSGERV
ILQCWSDIMFEHFFLHKEWISKDPSRLVGQIHDGVSKANFSIGSMMRALAGTYRCYGSVTHTPYQLSAPS
DPLDIVVTGLYEKPSLSAQPGPKVQAGESVTLSCSSRSSYDMYHLSREGGAHERRLPAVRKVNRTFQADF
PLGPATHGGTYRCFGSFRHSPYEWSDPSDPLLVSVTGNPSSSWPSPTEPSSKSGNLRHLHILIGTSVVKI
PFTILLFFLLHRWCSNKKKCCCNGPRACREQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001083539

ORF Size: 1146 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_001083539.2

RefSeq Size: 1741 bp

RefSeq ORF: 1149 bp

Locus ID: 3813

UniProt ID: Q14943

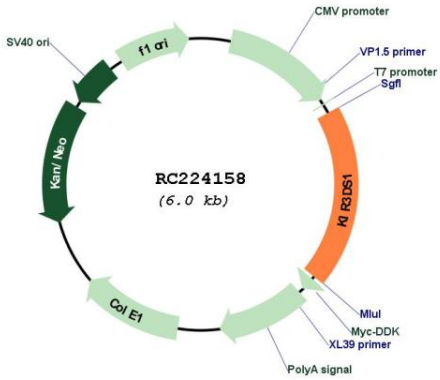
Cytogenetics: 19q13.4

Protein Families: Transmembrane

MW: 42.4 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC224158