

## Product datasheet for RC222059

### KIR2DL1 (NM\_014218) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL1 (NM_014218) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIR2DL1
Synonyms:	CD158A; KIR-K64; KIR2DL3; KIR221; NKAT; NKAT-1; NKAT1; p58.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222059 representing NM_014218 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGCTCTTGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCTGGCCACATGAGG  
GAGTCCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTAAATCAGAAGAGACAGTCATCCT  
GCAATGTTGGTCAGATGCATGTTTGAACACTTCTTCTGCACAGAGAGGGGATGTTTAAACGACTTTG  
CGCCTCATTGGAGAACCATGATGGGGTCTCCAAGCCAACCTTCCATCAGTCGCATGACGCAAGACC  
TGGCAGGGACCTACAGATGCTACGTTCTGTTACTCACTCCCCATCAGGTGTCAGCTCCAGTGACCC  
TCTGGACATCGTGATCATAGGTCTATATGAGAAACCTTCTCTCAGCCAGCCGGGCCACGGTCTG  
GCAGGAGAGAATGTGACCTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAAG  
GGGAGGCCATGAACGTAGGCTCCCTGCAGGGCCAAGGTCAACGGAACATTCCAGGCTGACTTTCTCT  
GGGCCCTGCCACCCACGGAGGGACCTACAGATGCTTCGGCTCTTCCATGACTCTCCATACGAGTGGTCA  
AAGTCAAGTGACCCACTGCTTGTCTGTACAGGAAACCTTCAAAATAGTTGGCCTTCAACCACTGAAC  
CAAGCTCCAAAACCGTAACCCCGACACCTGCACATTCTGATTGGGACCTCAGTGGTCATCATCTCTT  
CATCTCTCTTCTTCTCCTTCATCGTGGTGTCCAACAAAAAATGCTGCGGTAATGGACCAAGAG  
TCTGCAGGAAACAGAACGGAATAGCGAGGACTCTGATGAACAAGACCCTCAGGAGGTGACATACACAC  
AGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGAGGCCAAGACACCCCAAC  
AGATATCATCGTGTACACGGAACCTCCAATGCTGAGTCCAGATCCAAGTTGTCTCTCTGCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC222059 representing NM\_014218  
Red=Cloning site Green=Tags(s)

MSLLFVSMACVGFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVMFEHLLHREGMFNDTL  
 RLIGEHHDGVSKANFISIRMTQDLAGTYRCYGSVTHSPYQVSAPSDPLDIVIIGLYEKPSLSAQPGPTVL  
 AGENVTLS CSSRSDYMYHLSREGEAHERRLPAGPKVNGTFQADFPLGPATHTGGTYRCFSGFHDSPYEWS  
 KSSDPLLVSVTGNPSNSWSPTEPSSKTGNPRHLHILIGTSVVIILFILLFLLHRWCSNKKNAAVMDQE  
 SAGNRTANSEDSDEQDPQEVYTYQLNHCVFTQRKITRPSQRPKTPPTDIIYVTELPNAESRSKVVSCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8008\\_h06.zip](https://cdn.origene.com/chromatograms/mk8008_h06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014218

**ORF Size:** 1044 bp

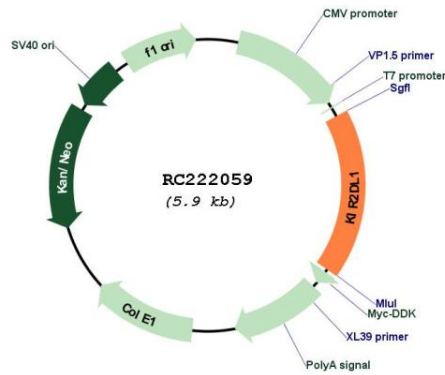
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

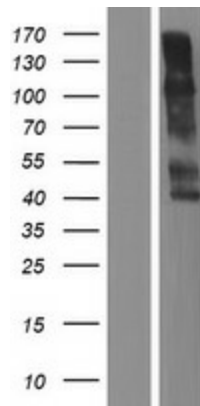
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014218.1</a> , <a href="#">NP_055033.1</a>
<b>RefSeq Size:</b>	1593 bp
<b>RefSeq ORF:</b>	1047 bp
<b>Locus ID:</b>	3802
<b>UniProt ID:</b>	<a href="#">P43626</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity
<b>MW:</b>	38.4 kDa
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC222059



Western blot validation of overexpression lysate (Cat# [LY415433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222059 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).