

## Product datasheet for **SC122790**

### **KIR3DL1 (NM\_013289) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIR3DL1 (NM_013289) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR3DL1
Synonyms:	CD158E1; KIR; KIR2DL5B; KIR3DL1/S1; NKAT-3; NKAT3; NKB1; NKB1B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

```
>OriGene sequence for NM_013289 edited
CAGCCGCTGTCTGCACCGGCAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGT
GGGTTGTTCTTGGTCCAGAGGGCCGGTCCACACATGGGTGGTCAGGACAAGCCCTTCTGT
TCTGCCTGGCCAGCGCTGTGGTGCCTCGCGGAGGACACGTGACTCTTCGGTGTCACTAT
CGTCATAGGTTTAAACAATTTTCATGCTATACAAAGAAGACAGAATCCACGTTCCCATCTTC
CATGGCAGAATATTCCAGGAGGGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGG
AACTACACATGTCGGGGTTCACACCCACTCCCCACTGGGTGGTCGGCACCCAGCAAC
CCCATGGTGATCATGGTACAGGAAACCACAGAAAACCTTCCCTCCTGGCCACCCAGGT
CCCCTGGTGAAATCAGGAGAGAGAGTATCCTGCAATGTTGGTCAGATATCATGTTTGAG
CACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCACGCCTCGTTGGACAGATC
CATGATGGGGTCTCCAAGGCAATTTCTCCATCGGTCCCATGATGCTTGCCTTGCAGGG
ACCTACAGATGCTACGGTCTGTACTCACACCCCTATCAGTTGTGAGTCCCAGTGAT
CCCCTGGACATCGTGGTACAGGTCCATATGAGAAAACCTTCTCTCAGCCAGCCGGGC
CCCAAGGTTCAGGCAGGAGAGCGTGACCTTGCTGTAGCTCCCGGAGCTCCTATGAC
ATGTACCATCTATCCAGGAGGGGGAGCCCATGAACGTAGGCTCCCTGCAGTGCACAAG
GTCAACAGAACATTCCAGGCAGATTTCCCTCCTGGGCCCTGCCACCCACGGAGGGACTAC
AGATGCTTCGGCTCTTCCGTCACCTCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTG
CTTGTCTTCTGTCACAGGAAACCCCTTCAAGTAGTTGGCCTTACCCACAGAACCAAGCTCC
AAATCTGGTAACCCAGACACCTGCACATTTCTGATTGGGACCTCAGTGGTCATCATCCTC
TTCATCTCTCTCTTCTTTCTCTTTCATCTCTGGTGTCCAACAAAAAATGCTGCT
GTAATGGACCAAGAGCCTGCAGGAAACAGAACAGCCAACAGCGAGGACTCTGATGAACAA
GACCCCTGAGGAGGTGACATACGCACAGTTGGATCACTGCGTTTTACACAGAGAAAAATC
ACTCGCCCTTCTCAGAGGCCCAAGACACCCCTACAGATACCATTCTGTACACGGAATT
CCAAATGCTAAGCCAGATCCAAAGTTGTCTCCTGCCATGAGCACCCACAGTCAGGCCTT
GAGGACGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGAGTTGCCAGCTCCCATGT
ACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCTCTTAGGGCATCGCTCCTCCTCACGC
CACAAATCTGGTGCCTCTCTTGTCTTACAAATGTCTAGGTCCCCACTGCCTGCTGGAAA
GAAAACACACTCCTTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCACCTC
TCCAACCTAACTGGCTTACTTCTAGTCTACTTGGGCTGCAATCACACTGAGGAACTCA
CAATTCAAAACATAACAAGAGGCTCCCTCTTGACGTGGCACTTACCCACGTGCTGTTCCAC
CTTCCCTCATGCTGTTTACCTTTCTTTCGACTATTTTCCAGCCTTCTGTGAGCAGTGAA
ACTTATAAAATTTTTTGTATTTCAATGTAGCTGTCTCCTTTCAAATAAACATGTCTGC
CCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_013289 unedited
CTTACTTTGTGAGGATTTGTAATACGACTCACTATGGGCGGCACGCGATTCCCGGATC
AGCCGCTGTCTGCACCGGCAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTG
GGTTGTTCTTGGTCCAGAGGGCCGGTCCACACATGGGTGGTCAGGACAAGCCCTTCTGT
CTGCCTGGCCAGCGCTGTGGTGCCTCGCGGAGGACACGTGACTCTTCGGTGTCACTATC
GTCATAGGTTTAAACAATTTTCATGCTATACAAAGAAGACAGAATCCACGTTCCCATCTTCC
ATGGCAGAATATTCCAGGAGGGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGA
ACTACACATGTCGGGGTTCACACCCACTCCCCACTGGGTGGTCGGCACCCAGCAACC
CCATGGTGATCATGGTACAGGAAACCACAGAAAACCTTCCCTCCTGGCCACCCAGGTC
CCCTGGTGAAATCAGGAGAGAGAGTATCCTGCAATGTTGGTCAGATATCATGTTTGAGC
ACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCACGCCTCGTTGGACAGATCC
ATGATGGGGTCTCCAAGGCAATTTCTCCATCGGTCCCATGATGCTTGCCTTGCAGGGA
CCTACAGATGCTACGGTCTGTTACTCACACCCCTATCAGTTGTGAGTCCCAGTGATC
CCCTGGACATCGTGGTACAGGTCCATATGAGAAAACCTTCTCTCAGCCACCNGGGCC
CCCAGGTTCANNGCAGAGAGAGCGTGACCTTGCTGTAGCTCCCGGAGCTNCTATGACA
TGATACCATCTATCCAGGAGGGGGGAGCCCATGAACGTANGCTCN
```

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_013289
<b>Insert Size:</b>	1950 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this clone has been fully sequenced and found five SNPs within the protein associated with this reference, NM_013289.2. Three out of five SNPs change amino acid.
<b>Components:</b>	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>	<u><a href="#">NM_013289.1</a></u> , <u><a href="#">NP_037421.1</a></u>
<b>RefSeq Size:</b>	1865 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	3811
<b>UniProt ID:</b>	<u><a href="#">P43629</a></u>
<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

**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. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the reference genome allele of the KIR3DL1 gene.