

Product datasheet for **SC303819**

KIR3DL2 (NM_006737) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR3DL2 (NM_006737) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR3DL2
Synonyms:	3DL2; CD158K; KIR-3DL2; NKAT-4; NKAT4; NKAT4B; p140
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006737 edited
 GCCGCCTGTCTGCACCGGCAGCACCATGTCGCTCACGGTCGTGAGCATGGCGTGCCTTGG
 GTTCTTCTTGCTGCAGGGGGCCTGGCCACTCATGGGTGGTCAGGACAAACCCCTTCTGTC
 TGCCCCGGCCAGCACTGTGGTGCCTCGAGGAGGACACGTGGCTCTTCACTGTCATATCG
 TCGTGGGTTTAAACAATTCATGCTGTACAAAGAAGACAGAAGCCACGTTCCCATCTTCCA
 CGGCAGAAATATCCAGGAGAGCTTCATCATGGGCCCTGTGACCCAGCACATGCAGGGAC
 CTACAGATGTCGGGGTTACGCCACACTCCCTCACTGGGTGGTCGGCACCCAGCAACCC
 CCTGGTGATCATGGTACAGGAAACCACAGAAAACCTTCCCTCCTGGCCACCCAGGGCC
 CCTGCTGAAATCAGGAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCATGTTTGGAC
 CTTCTTTCTGCACAGAGAGGGGATCTCTGAGGACCCCTCACGCCTCGTTGGACAGATCCA
 TGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCTTGATGCCTGTCTTGCAGGAAC
 CTACAGATGTTATGGTTCTGTTCCCTCACTCCCCATCAGTTGTCAGCTCCCACTGACCC
 CCTGGACATCGTGATCACAGGTCTATATGAGAAACCTTCTCTCAGCCAGCCGGGGCC
 CACGGTTCAGGCAGGAGAGAACGTGACCTTGCTCCTGTAGCTCCTGGAGCTCCTATGACAT
 CTACCATCTGTCCAGGGAAGGGGAGGCCATGAACGTAGGCTCCGTGCAGTGCCCAAGGT
 CAACAGAACATTCAGGCAGACTTTCCTCTGGGCCCTGCCACCCACGGAGGGACCTACAG
 ATGCTTCGGCTCTTCCGTGCCCTGCCCTGCGTGTGGTCAAACCTCAAGTGACCCACTGCT
 TGTTTCTGTACAGGAAACCCCTCAAGTAGTTGGCCTTCAACCCACAGAACCAAGCTCCAA
 ATCTGGTATCTGCAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCACTTCTCCTCT
 CATCCTCCTCCTTCTTCTCCTTTATCGCTGGTGCTCCAACAAAAAGAATGCTGCTGT
 AATGGACCAAGAGCCTGCGGGGGACAGAACAGTGAATAGGCAGGACTCTGATGAACAAGA
 CCCTCAGGAGGTGACGTACGCACAGTTGGATCACTGCGTTTTTCATACAGAGAAAAATCAG
 TCGCCCTTCTCAGAGGCCAAGACACCCCTAACAGATAACCAGCGTGTACACGGAACCTCC
 AAATGCTGAGCCAGATCCAAGTTGTCTCCTGCCACGAGACCACAGTCAGGTCTTGA
 GGGGGTTTTCTAGGAGACAACAGCCCTGTCTCAAACACAGGTTGCCAGATCCAATGAAC
 CAGCAGCTGGAATCTGAAGGCATCAGTCTGCATCTTAGGGGATCGCTCTTCTCACACCA
 CGAATCTGAACATGCCTCTCTTGTGTTACAAATGCCTAAGGTCGCCACTGCCTGCTGCA
 GAGAAAACACACTCCTTTGCTTAGCCACAAGTATCTATTTCACTTGACCCCTGCCACC
 TCTCCAACCTAACTGGCTTACTTCTAGTCTACTTGAGGCTGCAATCACACTGAGGAAC
 TCACAATCCAACATACAAGAGGCTCCCTCTTAACACGGCACTTACACACTTGCTGTTCC
 CACCTTCCCTCATGCTGTCCACCTCCCCTCAGACTATCTTTCAGCCTTCTGTCATCAGT
 AAAATTTATAAATTTTTTTTATAACTTCAGTGTAGCTCTCTCCTTCAAATAAACATGT
 CTGCCCTCA

Restriction Sites: Please inquire

ACCN: NM_006737

Insert Size: 1900 bp

OTI Disclaimer: 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_006737.1.

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_006737.1](#), [NP_006728.1](#)

RefSeq Size: 1855 bp

RefSeq ORF: 1368 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).