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Product datasheet for SC125949

KIR2DL3 (NM_015868) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL3 (NM_015868) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR2DL3
Synonyms:	CD158b; CD158B2; GL183; KIR-023GB; KIR-K7b; KIR-K7c; KIR2DL; KIR2DS5; KIRCL23; NKAT; NKAT2; NKAT2A; NKAT2B; p58
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for NM_015868 edited
CACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGGTTCTTCTTGCT
GCAGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGG
TCCCCTGGTGAAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTCA
GCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGACACTTTGCACCTCATTGGAGAGCA
CCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGACCTTGCAGG
GACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGA
CCCTCTGGACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGG
CCCCACGGTTCTGGCAGGAGAGAGCGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGA
CATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAACGTAGGTTCTCTGCAGGGCCCAA
GGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGGAACCTA
CAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACTCGAGTGACCCACT
GCTTGTTTCTGTCACAGGAAACCCTTCAAATAGTTGGCTTTCACCCACTGAACCAAGCTC
CGAAACCGGTAACCCCAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCT
CTTCATCCTCCTCCTCTTCTTTCTCCTTCATCGCTGGTGCTGCAACAAAAAAAATGCTGT
TGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCTGATGAACA
AGACCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTCACACAGAGAAAAAT
CACTCACCCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGTACACGGAACT
TCCAAATGCTGAGCCCTGATCCAAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCT
TGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAAACTGGGTTGCCAGCTCCAATG
TACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCATCTTAGGGCATCGCTCTTCCTCACA
CCACAAATCTGAACGTGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCT
GGAGAGAAAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCC
ACCTCTCCAACCTAACTGGCTTACTTCCTAGTCTATTTGAGGCTGCAATCACACTGAGGA
ACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAACACGGCACTTAGACACGTGCTGT
TCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGCCTTCTGTCAGCA
GTAAAACTTATATATTTTTTAAAATAATTTCAATGTAGTTTTCCCTCCTTCAAATAAACA
TGTCTGCCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_015868 unedited
GTTCTGGATTTGTATACGACTTACTATAGGCGGACCGCGATTCAGATCTGGTACCGGTCC
GGAATTCCCGGGATCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTT
GGGTTCTTCTTGCTGCAGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTC
CTGGCCCACCCAGGTCCCCTGGTGAAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCA
GATGTCAGGTTTCAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAGGACACTTTGCAC
CTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATG
CAAGACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTG
TCAGCTCCCAGTGACCCTCTGGACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTC
TCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAGAGCGTGACCTTGTCCTGCAGCTCC
CGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAACGTAGGTTC
TCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACC
CACGGAGGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAAC
TCGAGTGACCCACTGCTTGTTTCTGTCACAGGAAACCCTTCANATAGTTGGCTTTCACCC
ACTGAACCAAGCTNCGAAACCGGTAACCCCAGACACCTGCATGTTCTGATTGGGAACTCA
GTGGTCATCATCCCCTTCATCCTCCTCCTCTTCTTTCTTCTCATCGGTGGTGCTGCAACA
AAAAAATGCTGGTGTTATGGACCAAAC
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Restriction Sites: Please inquire

ACCN: NM_015868

Insert Size: 1800 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_015868.2, NP_056952.2
RefSeq Size:	1596 bp
RefSeq ORF:	1026 bp
Locus ID:	3804
UniProt ID:	P43628
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. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. It encodes isoform 2 which is longer due to an additional internal segment, compared to isoform 1.