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Product datasheet for SC126103

KIR2DL4 (NM_002255) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL4 (NM_002255) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR2DL4
Synonyms:	CD158D; G9P; KIR-2DL4; KIR-103AS; KIR103; KIR103AS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_002255 edited
GTCGAGCCGAGTCACTGCGTCCTGGCAGCAGAAGCTGCACCATGTCCATGTCACCCACGG
TCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGTGGGCACACGTGGGTG
GTCAGGACAAGCCCTTCTGCTCTGCCTGGCCCAGCGCTGTGGTGCCTCAAGGAGGACACG
TGACTCTTCGGTGTCACTATCGTCGTGGGTTTAACATCTTCACGCTGTACAAGAAAGATG
GGGTCCCTGTCCCTGAGCTCTACAACAGAATATTCTGGAACAGTTTCCTCATTAGCCCTG
TGACCCCAGCACACGCAGGGACCTACAGATGTCGAGGTTTTCACCCGCACTCCCCCACTG
AGTGGTCGGCACCCAGCAACCCCCTGGTGATCATGGTCACAGGTCTATATGAGAAACCTT
CGCTTACAGCCCGGCCGGGCCCCACGGTTCGCACAGGAGAGAACGTGACCTTGTCCTGCA
GCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAGGGGGAAGCCCATGAACTTA
GGCTCCCTGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTG
CCACCCACGGAGAGACCTACAGATGCTTCGGCTCTTTCCATGGATCTCCCTACGAGTGGT
CAGACGCGAGTGACCCACTGCCTGTTTCTGTCACAGGAAACCCTTCTAGTAGTTGGCCTT
CACCCACTGAACCAAGCTTCAAAACTGGTATCGCCAGACACCTGCATGCTGTGATTAGGT
ACTCAGTGGCCATCATCCTCTTCACCATCCTTCCCTTCTTTCTCCTTCATCGCTGGTGCT
CCAAAAAAAAAAATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACA
GGGAGGACTCTGATGAACAAGACCCTCAGGAGGTGACATACGCACAGTTGGATCACTGCA
TTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGAGGAGCAAGAGACCCTCAACAGATA
CCAGCGTGTGTATAGAACTTCCAAATGCTGAGCCCAGAGCGTTATCTCCTGCCCATGAGC
ACCACAGTCAGGCCTTGATGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGC
TTGCCAGCTCTAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTCCATCTTAGAGCA
TCACTCTTCCTCACACCACAAATCTGGTGCCTGTCTCTTGCTTACCAATGTCTAAGGTCC
CCACTGCCTGCTGCAGAGAAAACACACTCCTTTGCTTAGCCCACAATTCTCTATTTCACT
TGACCCCTGCCCACCTCTCCAACCTAACTGGCTTACTTCCTAGTCTACTTGAGGCTGCAA
TCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCTCTATTAACACGGCACTTA
GACACGTGCTGTTCCACCTTCCCTCGTGCTGTTCCACCTTTCCTCAGACTATTTTTCAGC
CTTCTGGCATCAGCAAACCTTATAAAATTTTTTTGATTTCAGTGTAGTTCTCTCCTCTTC
AAATAAACATGTCTGCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002255 unedited
NCTGTCAGATTTTGTATACGACTCATATAGGCGGACCGCGAATTCGCACGAGGGTCGAGC
CGAGTCACTGCGTCCTGGCAGCAGAAGCTGCACCATGTCCATGTCACCCACGGTCATCAT
CCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGTGGGCACACGTGGGTGGTCAGGA
CAAGCCCTTCTGCTCTGCCTGGCCCAGCGCTGTGGTGCCTCAAGGAGGACACGTGACTCT
TCGGTGTCACTATCGTCGTGGGTTTAACATCTTCACGCTGTACAAGAAAGATGGGGTCCC
TGTCCCTGAGCTCTACAACAGAATATTCTGGAACAGTTTCCTCATTAGCCCTGTGACCCC
AGCACACGCAGGGACCTACAGATGTCGAGGTTTTCACCCGCACTCCCCCACTGAGTGGTC
GGCACCCAGCAACCCCCTGGTGATCATGGTCACAGGTCTATATGAGAAACCTTCGCTTAC
AGCCCGGCCGGGCCCCACGGTTCGCACAGGAGAGAACGTGACCTTGTCCTGCAGCTCCCA
AAGCTCCTTTGACATCTACCATCTATCCAGGGAGGGGGAAGCCCATGAACTTAGGCTCCC
TGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTGCCACCCA
CTGAGAGACCTACAGATGCTTCGGCTCTATCCATGGATCTCCCTACGAGTGGTCAGACGC
GAGTGACCCACTGCCTGTTTCTGTCACAGGATACCCTTCTAGTAGTTGGCCTTCACCCAC
TGAACCCAGCTTCAAAACTGGTATCGCCAGACACCTGCATGCTGTGAATAGGTACTCAGT
GGCCATCATCCTCTTCACCATCCGTACCTTTCTTTCTCCTGCATCGCTGGTGCTCCAAAA
AAAAATGCTGCTGTAATGAA
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Restriction Sites: Please inquire

ACCN: NM_002255

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).
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_002255.3, NP_002246.3
RefSeq Size:	1609 bp
RefSeq ORF:	1134 bp
Locus ID:	3805
UniProt ID:	Q99706
Cytogenetics:	19q13.42
Protein Families:	Transmembrane
Protein Pathways:	Antigen processing and presentation, 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. Alternate alleles of this gene are represented on multiple alternate reference loci (ALT_REF_LOCs). Alternative splicing results in multiple transcript variants, some of which may not be annotated on the primary reference assembly. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).