

Product datasheet for **SC319875**

KIR2DL4 (NM_001080772) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL4 (NM_001080772) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR2DL4
Synonyms:	CD158D; G9P; KIR-2DL4; KIR-103AS; KIR103; KIR103AS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001080772.1
 GTCGAGCCGAGTCACTGCGTCTGGCAGCAGAAGCTGCACCATGTCCATGTCACCCACGG
 TCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGTGGGCACACGTGGGTG
 GTCAGGACAAGCCCTTCTGCTCTGCCTGGCCCAGCGCTGTGGTGCCTCAAGGAGGACACG
 TGACTCTTCGGTGTCACTATCGTCGTGGGTTAACATCTTACGCTGTACAAGAAAGATG
 GGGTCCCTGTCCCTGAGCTCTACAACAGAATATTCTGGAACAGTTTCTCATTAGCCCTG
 TGACCCACGACACCGCAGGGACCTACAGATGTCGAGGTTTTACCCGCACTCCCCACTG
 AGTGGTCGGCACCCAGCAACCCCTGGTATCATGGTCACAGGTCTATATGAGAAACCTT
 CGTTACAGCCCGCCGGCCCCACGGTTCGCACAGGAGAGAACGTGACCTTGTCTGCA
 GCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAGGGGAAGCCCATGAACTTA
 GGCTCCCTGCAGTGCCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGTCTCTG
 CCACCCACGGAGAGACCTACAGATGCTTCGGCTCTTCCATGGATCTCCCTACGAGTGGT
 CAGACGCGAGTGACCCACTGCCTGTTTCTGTCACAGGAAACCTTCTAGTAGTTGGCCTT
 CACCCACTGAACCAAGCTTCAAACTGGTATCGCCAGACACCTGCATGCTGTGATTAGGT
 ACTCAGTGGCCATCATCCTCTTACCATCCTTCCCTTCTTCTCCTTCATCGCTGGTGTCT
 CCAAAAAAAAAAATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACA
 GGGAGGACTCTGATGAACAAGACCTCAGGAGGTGACATACGCACAGTTGGATCACTGCA
 TTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGAGGAGCAAGAGACCTCAACAGATA
 CCAGCGTGTGTATAGAATTCCAATGTGAGCCAGAGCGTTATCTCCTGCCATGAGC
 ACCACAGTCAGGCCTTGTGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGC
 TTGCCAGCTCTAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTCCATCTTAGAGCA
 TCACTCTTCTCACACCACAAATCTGGTGCCTGTCTCTTGCTTACCAATGTCTAAGGTCC
 CCACTGCTGTCAGAGAAAAACACACTCCTTTGCTTAGCCACAAATTCTATTTCACT
 TGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCTAGTCTACTTGAGGCTGCAA
 TCACACTGAGGAACTCACAATTCAAAACATACAAGAGGCTCTCTATTAACACGGCACTTA
 GACACGTGCTGTTCCACCTTCCCTCGTGTGTTCCACCTTTCCTCAGACTATTTTTAGC
 CTTCTGGCATCAGCAAACCTTATAAAATTTTTTTGATTCAGTGTAGTTCTCTCCTCTTC
 AAATAACATGTCTGCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001080772
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001080772.1, NP_001074241.1</u>
RefSeq Size:	1609 bp
RefSeq ORF:	822 bp
Locus ID:	3805
Cytogenetics:	19q13.42
Protein Families:	Transmembrane
Protein Pathways:	Antigen processing and presentation, Natural killer cell mediated cytotoxicity
Gene Summary:	<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. 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]</p> <p>Transcript Variant: This variant (2) is one nt shorter than variant 1. It encodes isoform b, which is shorter and has a distinct C-terminus, compared to isoform a.</p>