

Product datasheet for **SC316055**

KIR3DS1 (NM_001083539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR3DS1 (NM_001083539) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR3DS1
Synonyms:	CD158E2; KIR-123FM; KIR-G1; NKAT-10; NKAT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001083539, the custom clone sequence may differ by one or more nucleotides

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ATGTTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTGTTCTTGGTCCAGAGGGCCGGTCCACACATGG
GTGGTCAGGACAAGCCCTTCTGTCTGCCTGGCCAGCGCTGTGGTGCCTCGCGGAGGACACGTGACTCT
TCGGTGTCACTATCGTCATAGGTTTAAACAATTTTCATGCTATACAAAGAAGACAGAATCCACGTTCCCATC
TTCCATGGCAGAATATCCAGGAGGGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAACACTACA
CATGTCGGGGTTCACACCCACACTCCCCACTGGGTGGTGGCACCAGCAACCCATGGTGATCATGGT
CACAGAAACCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCCCTGGTAAAATCAGGAGAGAGAGTC
ATCCTGCAATGTTGGTCAGATATCATGTTTGGACACTTCTTTCTGCACAAAGAGTGGATCTCTAAGGACC
CCTCACGCCTCGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGGTTCCATGATGCG
TGCCCTTGCGAGGGACCTACAGATGCTACGGTCTGTTACTCACACCCCTATCAGTTGTCAGCTCCCAGT
GATCCCCTGGACATCGTGGTCACAGGTCTATATGAGAAACCTTCTCTCAGCCAGCCGGGCCCAAGG
TTCAGGCAGGAGAGAGCGTGACCTTGTCTGTAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAG
GGAGGGGGGAGCCCATGAACGTAGGCTCCCTGCAGTGGCAAGGTCAACAGAACATTCCAGGCAGATTTCC
CCTCTGGGCCCTGCCACCCAGGAGGGACCTACAGATGCTTGGCTCTTCCGCTCTTCCGTCACCTCCCTACGAGT
GGTCAGACCCGAGTGACCACTGCTTGTCTGTACAGGAAACCCTTCAAGTAGTTGGCCTTCAACCCAC
AGAACCAAGCTCAAATCTGGTAACCTCAGACACCTGCACATTCTGATTGGGACCTCAGTGGTCAAATC
CCTTTCACCATCCTCCTTCTTCTCCTTTCATCGCTGGTGTCCAAACAAAAAATGCTGCTGTAATG
GACCAAGAGCCTGCAGGGAACAGAAGTGA
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Restriction Sites:	Please inquire
ACCN:	NM_001083539



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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](#)

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:

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_001083539.1](#), [NP_001077008.1](#)

RefSeq Size: 1741 bp

RefSeq ORF: 1149 bp

Locus ID: 3813

UniProt ID: [Q14943](#)

Cytogenetics: 19q13.4

Protein Families: Transmembrane

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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (1) encodes the longest isoform (1).