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Product datasheet for SC303957

KIR2DS3 (NM_012313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DS3 (NM_012313) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR2DS3
Synonyms:	NKAT7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_012313 edited
CCATGTCGCTCATGGTCATCAGCATGGCATGTGTTGGGTTCTTCTGGCTGCAGGGGGCCT
GGCCACATGAGGGATTCCGCAGAAAACCTTCCCTCCTGGCCCACCCAGGTCGCCTGGTGA
AATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCATGTTTGAGCACTTCCTTC
TGCACAGAGAGGGGACGTTTAACGACACTTTGCGCCTCATTGGAGAGCACATTGATGGGG
TCTCCAAGGCCAACTTCTCCATCGGTCGCATGAGGCAAGACCTGGCAGGGACCTACAGAT
GCTACGGTTCTGTTCCTCACTCCCCCTATCAGTTTTCAGCTCCCAGTGACCCTCTGGACA
TCGTGATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTC
TGGCAGGAGAGAGCGTGACCTTGTCCTGCAGCTCCTGGAGCTCCTATGACATGTACCATC
TATCCACGGAGGGGGAGGCCCATGAACGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAA
CATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCAAGGAGGAACCTACAGATGCTTCG
GCTCTTTCCATGACTCTCCCTACGAGTGGTCAAAGTCAAGTGACCCACTGCTTGTTTCTG
TCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCAAAACCGGTA
ACCCCAGACACCTACACGTTCTGATTGGGACCTCAGTGGTCAAACTCCCTTTCACCATCC
TCCTCTTCTTTCTCCTTCATCGCTGGTGCTCCGACAAAAAAAATGCATCTGTAATGGACC
AAGGGCCTGCGGGGAACAGAACAGTGAACAGGGAGGATTCTGACGAACAGGACCATCAGG
AGGTGTCATACGCATAATTGGATCACTGTGTTTTCACACAGAGAAAAATCACTCCCCCTT
CTCAGAGGCCCAAGACACCCCCAACAGATAGCAGCATGTACATAGAACTTCCAAATGCTG
AGTCCAGATCCAAAGCTGTCTTCTGTCCACGAGCACCACAGTCAGGCCTTGAGGGGATCT
TCTAGGGAGTCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGG
GTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGT
GCCCACCAGCCTTGTCCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTT
CTATAATATTATGGGGTGGAGGG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012313 unedited
CNCACTATAGGGNNCGGCCGCGNAACTCACCATGTTCGCTCATGGTCATCAGCATGGCAT
GTGTTGGGTTCTTCTGGCTGCAGGGGGCCTGGCCACATGAGGGATTCCGCAGAAAACCTT
CCCTCCTGGCCCACCCAGGTCGCCTGGTGAAATCAGAAGAGACAGTCATCCTGCAATGTT
GGTCAGATGTCATGTTTGAGCACTTCCTTCTGCACAGAGAGGGGACGTTTAACGACACTT
TGCGCCTCATTGGAGAGCACATTGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCGCA
TGAGGCAAGACCTGGCAGGGACCTACAGATGCTACGGTTCTGTTCCTCACTCCCCCTATC
AGTTTTCAGCTCCCAGTGACCCTCTGGACATCGTGATCACAGGTCTATATGAGAAACCTT
CTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAGAGCGTGACCTTGTCCTGCA
GCTCCTGGAGCTCCTATGACATGTACCATCTATCCACGGAGGGGGAGGCCCATGAACGTA
GGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTG
CCACCCAAGGAGGAACCTACAGATGCTTCGGCTCTTTCCATGACTCTCCCTACGAGTGGT
CAAAGTCAAGTGACCCACTGCTTGTTTCTGTCACAGGAAACCCTTCANATAGTTGGCCTT
CACCCACTGAACCAAGCTCCAAAACCGGTAACCCCAGACACCTACACGTTCTGATTGNGA
CCTCAGTGGTCAAACTCCCTTTCACCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTGCT
CCGACAAAAAAATGCATCTGTNATGGACCAAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012313 unedited
AGNAAAGCACTGGGGNAGGGTCACAGGNATGCCACCCGGGATCTGTTCAGGAAACAGCTA
TGACCGCGGCCGCAATCTAGAGTCGACTCCCTAGAAGATCCCCTCAAGGCCTGACTGTGG
TGCTCGTGGACAGAAGACAGCTTTGGATCTGGACTCAGCATTTGGAAGTTCTATGTACAT
GCTGCTATCTGTTGGGGGTGTCTTGGGCCTCTGAGAAGGGGGAGTGATTTTTCTCTGTGT
GAAAACACAGTGATCCAATTATGCGTATGACACCTCCTGATGGTCCTGTTCGTCAGAATC
CTCCCTGTTCACTGTTCTGTTCCCCGCAGGCCCTTGGTCCATTACAGATGCATTTTTTTT
GTCGGAGCACCAGCGATGAAGGAGAAAGAAGAGGAGGATGGTGAAAGGGAGTTTGACCAC
TGAGGTCCCAATCAGAACGTGTAGGTGTCTGGGGTTACCGGTTTTGGAGCTTGGTTCAGT
GGGTGAAGGCCAACTATTTGAAGGGTTTCCTGTGACAGAAACAAGCAGTGGGTCACTTGA
CTTTGACCACTCGTAGGGAGAGTCATGGAAAGAGCCGAAGCATCTGTAGGTTCCTCNCTT
GGTGGCAGGGCCCAGAGGAAAGTCGGCCTGGAATGTTCCGTTGACCTTGGGCCCTGCAGA
GAACCTACGTTCATGGGCCTCCCCCTCCGTGGATAGATGGTACATGTCATAAGAGCTCCA
GGAGCTGCAGGACAAGGTCACGCTCTCTCCTGCCAGAACCGTGGGGCCCGGCTGGGCTGA
GAGAAAGGTTTCTCATATAGACCTGTGATCACGATGTCCAGAGGGTCACTGGGAGCTGAA
AACTGATAGGGGGAGTGAGG

Restriction Sites: Please inquire

ACCN: NM_012313

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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_012313.1, NP_036445.1
RefSeq Size:	1113 bp
RefSeq ORF:	915 bp
Locus ID:	3808
UniProt ID:	Q14952
Cytogenetics:	19q13.4
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. [provided by RefSeq, Jul 2008]