

Product datasheet for **RG206996**

KIR3DL1 (NM_013289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR3DL1 (NM_013289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIR3DL1
Synonyms:	CD158E1; KIR; KIR2DL5B; KIR3DL1/S1; NKAT-3; NKAT3; NKB1; NKB1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206996 representing NM_013289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTGTTCTTGGTCCAGAGGGCCGGTCCACACATGG
 GTGGTCAGGACAAGCCCTTCTGTCTGCCTGGCCAGCGCTGTGGTGCCTCGCGGAGGACACGTGACTCT
 TCGGTGCTCACTATCGTCATAGGTTTAACAATTTTCATGCTATACAAAGAAGACAGAATCCACGTTCCCATC
 TTCCATGGCAGAAATATCCAGGAGGGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAACATACA
 CATGTCGGGGTTACACCCACACTCCCCACTGGGTGGTCCGACCCAGCAACCCCATGGTGATCATGGT
 CACAGGAAACCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTGAATCAGGAGAGAGAGTC
 ATCCTGCAATGTTGGTCAGATATCATGTTTGGACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACC
 CCTCACGCCTCGTTGGACAGATCCATGATGGGGTCTCCAAGCCAATTTCTCCATCGGTCCCATGATGCT
 TGCCCTTGCAAGGACCTACAGATGCTACGTTCTGTTACTCACACCCCTATCAGTTGTCAGCTCCCAGT
 GATCCCTTGACATCGTGGTCACAGGTCCATATGAGAAACCTTCTCTCTCAGCCAGCCGGGCCCAAGG
 TTCAGGCAGGAGAGAGCGTGACCTTGTCTGTAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAG
 GGAGGGGGGAGCCATGAACGTAGGCTCCCTGCAGTGCAGCAAGGTCAACAGAACATTCCAGGCAGATTTT
 CCTCTGGGCCCTGCCACCCACGGAGGGACCTACAGATGCTTCGGCTCTTCCGTCACCTCTCCCTACGAGT
 GGTGACACCCGAGTGACCCACTGCTTGTCTGTACAGGAAACCTTCAAGTAGTTGGCCTTACCCAC
 AGAACCAAGCTCCAAATCTGGTAACCCAGACACTGCACATTCTGATTGGGACCTCAGTGGTATCATC
 CTCTTCTCCTCCTCTTCTTCTCCTTCTGTTGCTCCAACAAAAAATGCTGCTGTAATGG
 ACCAAGACCTGCAGGGAACAGAACAGCAACAGCGAGGACTCTGATGAACAAGACCCCTGAGGAGGTGAC
 ATACGCACAGTTGGATCACTGCGTTTTTCACACAGAGAAAAATCACTCGCCCTTCTCAGAGGCCCAAGACA
 CCCCTACAGATACCATCTTGTACACGGAACCTCAAATGCTAAGCCAGATCCAAGTTGTCTCTCTGCC
 CA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

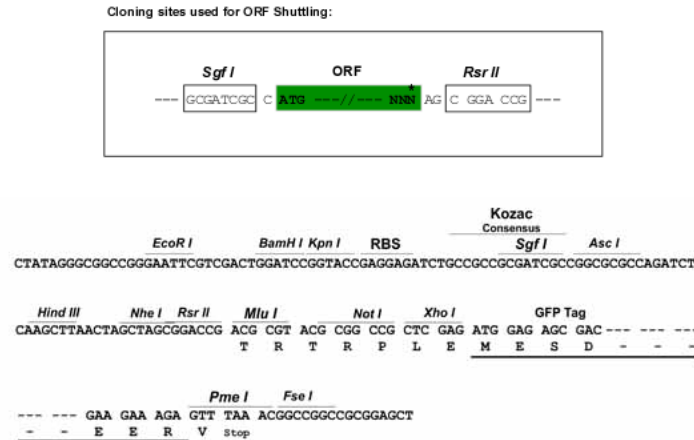
>RG206996 representing NM_013289
 Red=Cloning site Green=Tags(s)

MSLMVVSMAVGLFLVQRAGPHMGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMLYKEDRIHVPI
 FHGRIFQEGFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPMVIMVTGNHRKPSLLAHPGPKVKSGERV
 ILQCWSDIMFEHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMLALAGTYRCYGSVTHTPYQLSAPS
 DPLDIVVTGPYEKPSLSAQPGPKVQAGESVTLSCSSRSSYDMYHL SREGGAHERRLPAVRKVNRTFQADF
 PLGPATHGGTYRCFGSFRHSPYEWSDPDPLLVSVTGNPSSSWPSPTPESSKSGNPRHLHILIGTSVVI
 LFILLFFLLHLWCSNKKNAAVMDQEPAGNRTANSEDSDEQDPEEVTYAQLDHCVFTRKQITRPSQRPKT
 PPTDITLYTELPNAKPRSKVVVSCP

SGP**TRRRLE** – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_013289

ORF Size: 1332 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_013289.1](#), [NP_037421.1](#)

RefSeq Size: 1865 bp

RefSeq ORF: 1335 bp

Locus ID: 3811

UniProt ID: [P43629](#)

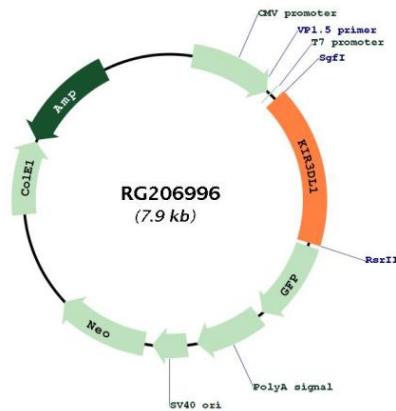
Cytogenetics: 19q13.42

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]

Product images:



Circular map for RG206996