

Product datasheet for **RG224383**

Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM_153443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM_153443) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Killer cell immunoglobulin like receptor 3DL3
Synonyms:	CD158Z; KIR3DL7; KIR44; KIRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224383 representing NM_153443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGTTCTTCTGCTGGAGGGCCCTGGCCACATGTGG
 GTGGTCAGGACAAGCCCTTCTCTGCTGCGCCGGCAGCTGTGGTGTCTGAAGGACAACATGTGACTCT
 TCAGTGTGCTCTCGTCTTGGGTTAAACGAATTCAGTCTGTCCAAGAAGACGGGATGCCTGTCCCTGAG
 CTCTACAACAGAAATATCCGGAACAGCTTTCTCATGGCCCTGTGACCCAGCACATGCAGGGACCTACA
 GATGTTGCAGTTCACACCCACACTCCCCACTGGGTGGTCGGCACCCAGCAACCCGTGGTGATCATGGT
 CACGGGAGTCCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTGAATCGGGAGAGACGGTC
 ATCCTGCAATGTTGGTCAGATGTCAGGTTTGGCGCTTCTTCTGCACAGAGAGGGGATCACTGAGGACC
 CCTTGGCCTCGTTGGACAGCTCCAGATGCGGGTTCCAGGTCAACTATCCATGGGTCCCATGACACC
 TGCCCTTGACGGGACCTACAGATGCTTTGGTTCTGTCACTCACTTACCCTATGAGTTGTCGGCTCCCAGT
 GACCCTCTGGACATCGTGGTCTAGGTCTATATGGGAAACCTTCTCTCTAGCCAGCCGGGCCCCACGG
 TTCAGGCAGGAGAGAATGTGACCTTGCCTGCAGCTCCCGGAGCTTGTGGACATTTACCATCTATCCAG
 GGAGGCAGAGGCCGGTGAACCTTAGGCTCACTGCGGTGCTGAGGGTCAATGGAACATTCCAGGCCAACTTC
 CCTCTGGGCCCTGTGACCCACGGAGGGAACACAGATGCTTCCGGCTTTTCCGTGCCCTGCCACGCGT
 GGTGACACCCGAGTGACCCACTGCCCGTTTCTGTACAGGTAACCCAGACACCTGCACGTTCTGATTGG
 GACCTCAGTGGTCATCATCCCTTTGCTATCCTCCTCTTCTTCTCCTTCATCGCTGGTGTGCCAACAAA
 AAGAACTGCTGTTGAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCTGATGAAC
 AAGACCCTCAGGAGGTGACATACGCACAGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCGCCC
 TTCTCAGAGGCCCAAGACACCCCAACAGATACCAGCGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224383 representing NM_153443
 Red=Cloning site Green=Tags(s)

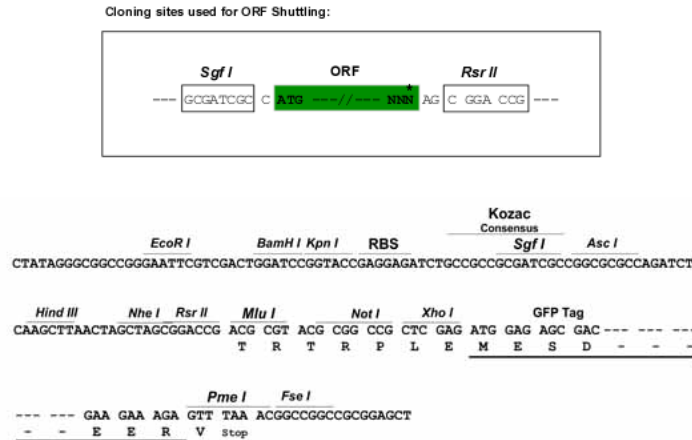
MSLMVSMACVGFLLLEGPWPHVGGQDKPFLSAWPGTVVSEGHVTLQCRSRLGFNEFSLSKEDGMPVPE
 LYNRIFRNSFLMGPVTPAHAGTYRCCSSPHSPTGWSAPSNPVVIMVTGVHRKPSLLAHPGPLVKSGETV
 ILQCWSDVRFERFLLHREGITDPLRLVGQLHDAGSQVNYSMGPMTPALAGTYRCFSGVTHLPYELSAPS
 DPLDIVVVGLYGKPSLSAQPGPTVQAGENVTLSCSSRSLFDIYHLSREAEAGELRLTAVLRVNGTFQANF
 PLGPVTHGGNYRCFSGFRALPHAWSDPSDPLPVSVTGNSRHLHVLIGTSVVIIPFAILLFLLHRWCANK
 KNAVVMQEPAGNRTVNREDSDEQDPQEVTYAQLNHCVFTRKITRPSQRPKTPPTDTSV

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_153443

ORF Size: 1230 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_153443.2](#), [NP_703144.2](#)

RefSeq Size: 1691 bp

RefSeq ORF: 1233 bp

Locus ID: 115653

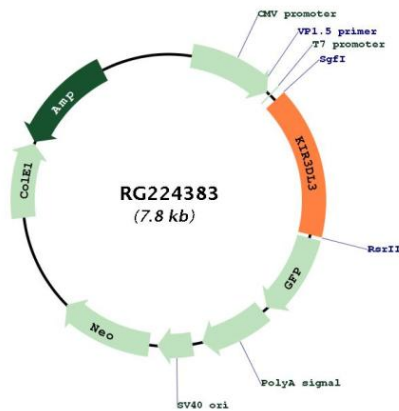
Cytogenetics: 19q13.42

Protein Families: Transmembrane

Protein Pathways: Antigen processing and presentation

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224383