

Product datasheet for **RG224797**

KIR2DL2 (NM_014219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL2 (NM_014219) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIR2DL2
Synonyms:	CD158b; CD158B1; NKAT-6; NKAT6; p58.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>NM_014219 ORF sequence, RG224797 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGCTCATGGTCGTGAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGCCACATGAG
GGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCGCCTGGTAAATCAGAAGAGACAGTCATC
CTGCAATGTTGGTCAGATGTCAGGTTTGGAGCACTTCTTCTGCACAGAGAAGGGAAGTTAAGGACACT
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GACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCTATCAGTTGTCAGCTCCCAGT
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GTTCTGGCAGGAGAGAGCGGTGACCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCC
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TTTCTCTGGGCCCTGCCACCCAGGAGAACCTACAGATGCTTCGGCTCTTCCGTGACTCTCCATAC
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ATCATCCTCTTATCCTCCTCTTCTTCTCCTTTCATCGCTGGTGTCCAACAAAAAATGCTGCGGTA
ATGGACCAAGAGTCTGCAGGGAACAGAACAGCGAATAGCGAGGACTCTGATGAACAAGACCCTCAGGAG
GTGACATACACACAGTTGAATCACTGCGTTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGAGGCC
AAGACACCCCAACAGATATCATCGTGTACACGGAACCTCCAAATGCTGAGTCCAGATCCAAAGTTGTC
TCCTGCCCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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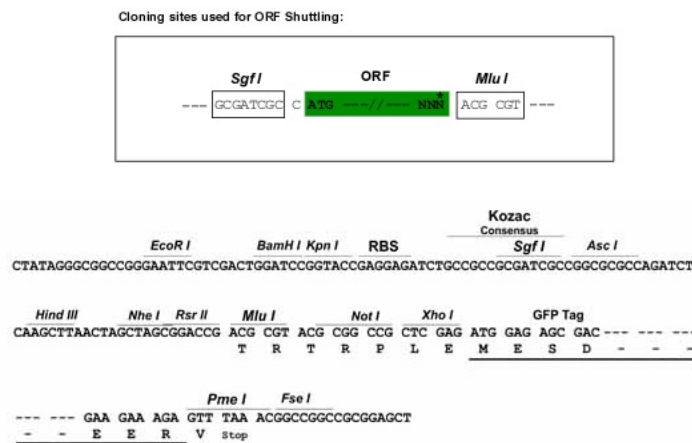
Protein Sequence: >Peptide sequence encoded by RG224797
 Blue=ORF Red=Cloning site Green=Tag(s)

MSLMVVSMA CVGFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEFLLHREGKFKDT
 LHLIGEHHDGVS KANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPT
 VLAGE SVTLSCSSRSSYDMYHL SREGEAHECRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPY
 EWSNSSDPLLVSVTGNPSNSWPSPTEPSSKTGNPRHLHILIGTSVVIILFILLFLLHRWCSNKKNAAV
 MDQESAGNRTANSEDSDEQDPQEVYTYQLNHCVFTRK ITRPSQRPKTPPTDIIVYTELPNAESRSKVV
 SCP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Chromatograms: https://cdn.origene.com/chromatograms/ja2398_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



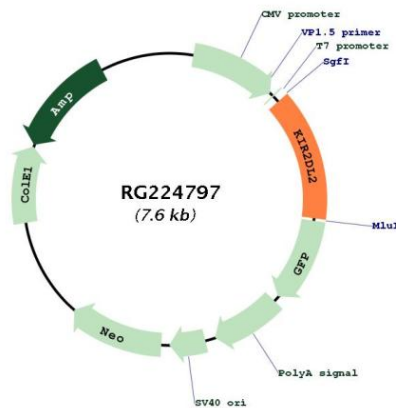
ACCN: NM_014219

ORF Size: 1044 bp

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 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:	<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:	NM_014219.2
RefSeq Size:	1587 bp
RefSeq ORF:	1047 bp
Locus ID:	3803
UniProt ID:	P43627
Cytogenetics:	19q13.4
Protein Families:	Transmembrane
Protein Pathways:	Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity
MW:	38.5 kDa

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 RG224797