

## Product datasheet for **RG208736**

### **KIR2DL3 (NM\_015868) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIR2DL3 (NM_015868) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIR2DL3
Synonyms:	CD158b; CD158B2; GL183; KIR-023GB; KIR-K7b; KIR-K7c; KIR2DL; KIR2DS5; KIRCL23; NKAT; NKAT2; NKAT2A; NKAT2B; p58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208736 representing NM_015868 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGTTCTTCTTGCTGCAGGGGGCTGGCCACATGAGG  
GAGTCCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTAAAATCAGAAGAGACAGTCATCCT  
GCAATGTTGGTCAGATGTCAGGTTTCAGCACTTCTTCTGCACAGAGAAGGGAAGTTAAGGACACTTTG  
CACCTATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAATTCTCCATCGGTCCCATGATGCAAGACC  
TTGCAGGGACCTACAGATGCTACGGTCTGTTACTCACTCCCCATCAGTTGTCAGCTCCCAGTGACCC  
TCTGGACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCAGCCCAGCCGGGCCCCACGGTCTG  
GCAGGAGAGAGCGTGACCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGG  
GGGAGGCCCATGAACGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCT  
GGGCCCTGCCACCCACGGAGAACCTACAGATGCTTCGGCTCTTCCGTGACTCTCCATACGAGTGGTCA  
AACTCGAGTGACCCACTGCTTGTCTGTACAGGAAACCTTCAAATAGTTGGCTTTCACCCACTGAAC  
CAAGCTCCGAAACCGTAACCCAGACACTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCTCTT  
CATCTCTCTCTTCTTCTCCTTCATCGCTGGTGTGCAACAAAAAATGCTGTTGTAATGGACAA  
GAGCCTGCAGGGAACAGAACAGTGAACAGGGAGGACTCTGATGAACAAGACCCTCAGGAGGTGACATAG  
CACAGTTGAATCACTGCGTTTTTCACACAGAGAAAAATCACTACCCTTCTCAGAGGCCAAGACACCCCC  
AACAGATATCATCGTGTACACGGAATTCCAATGCTGAGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208736 representing NM\_015868  
Red=Cloning site Green=Tags(s)

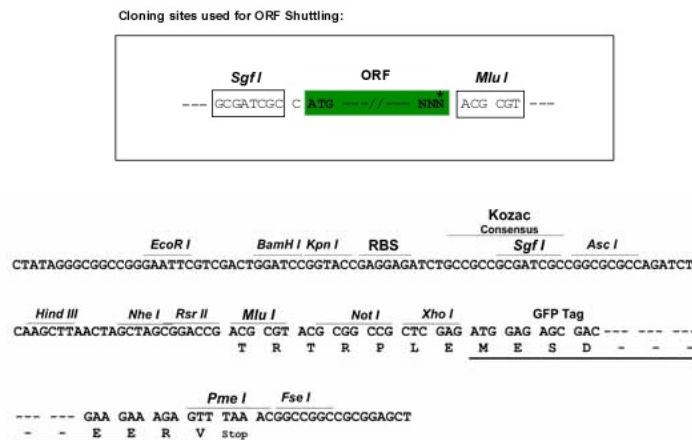
MSLMVVMVCVGFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHFLLHREGKFKDTL  
 HLI GEHHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPPTVL  
 AGESVTLSCSSRSYDMYHL SREGEAHERRF SAGPKVNGTFQADFPLGPATHTGGTYRCFGSFRDSPYEWS  
 NSSDPLLVSVTGNPSNSWLSPTEPSSETGNPRHLHVLIGTSVVIILFILLFLLHRWCCNKKNNAVMDQ  
 EPAGNRTVNREDSDEQDPQEVTYAQLNHCVFTRQKITHPSQRPKTPPTDIIIVYTELPNAEP

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2398\\_c06.zip](https://cdn.origene.com/chromatograms/ja2398_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015868

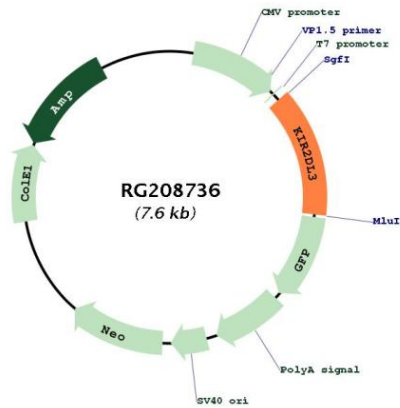
**ORF Size:** 1023 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015868.2</a> , <a href="#">NP_056952.2</a>
<b>RefSeq Size:</b>	1596 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	3804
<b>UniProt ID:</b>	<a href="#">P43628</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity
<b>Gene Summary:</b>	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 RG208736