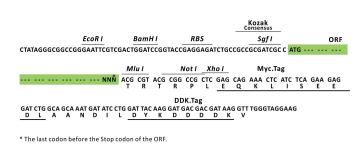


# Product datasheet for RC213484L3

## KIR2DS1 (NM\_014512) Human Tagged Lenti ORF Clone

### **Product data:**

#### **Product Type: Expression Plasmids Product Name:** KIR2DS1 (NM 014512) Human Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: KIR2DS1 Synonyms: CD158a; CD158H; p50.1 **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC213484). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: ORF Size: NM\_014512 912 bp

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

| Service Content Conten |   |
|--|---|
| 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. <u>More info</u>   |
| 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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>  |
| RefSeq:  | <u>NM 014512.1, NP 055327.1</u>   |
| RefSeq Size:   | 1101 bp   |
| RefSeq ORF:  | 915 bp  |
| Locus ID:  | 3806  |
| UniProt ID:  | <u>Q14954</u>   |
| Cytogenetics:  | 19q13.4   |
| Protein Families:  | Transmembrane   |
| Protein Pathways:  | Antigen processing and presentation, Natural killer cell mediated cytotoxicity  |
| MW:  | 33.62 kDa   |
| Gene Summary:  | Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed<br>by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly<br>homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb<br>leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among<br>haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3,<br>KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular<br>immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S)<br>cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory<br>signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR<br>proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the<br>TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for<br>several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to<br>play an important role in regulation of the immune response. [provided by RefSeq, Jul 2008] |

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US