

## Product datasheet for **RC238292**

### LILRB4 (NM\_001278426) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB4 (NM_001278426) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LILRB4
Synonyms:	CD85K; ILT-3; ILT3; LIR-5; LIR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238292 representing NM\_001278426  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCCCCACCTTCACGGCTCTGCTCTGCCTCGGGCTGAGTCTGGGCCCCAGGACCCACATGCAGGCAG  
 GGCCCTCCCAAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGAACTCTGTGACCAT  
 CTGGTGTACGGGACCCTGGAGGCTCGGGAGTACCGTCTGGATAAAGAGGAAAGCCAGCACCCCTGGGAC  
 AGACAGAACCCACTGGAGCCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGGACTATGCAG  
 GGAGATACCGCTTACTATCGCAGCCCTGTAGGCTGGTACAGCCCAGTGACCCCTGGAGCTGGTGTGAT  
 GACAGGAGCTACAGTAAACCCACCCTTTCAGCCCTGCCGAGTCTCTTGTGACCTCAGGAAAGAGCGTG  
 ACCCTGCTGTGTCAGTACGGAGCCCAATGGACACTTTTCTTCTGATCAAGGAGCGGGCAGCCCATCCCC  
 TACTGCATCTGAGATCAGAGCACGGAGCTCAGCAGCACCAGGCTGAATCCCCATGAGTCTGTGACCTC  
 AGTGCACGGGGGACCTACAGGTGCTTCAGCTCACACGGCTTCTCCACTACCTGCTGTACACCCCACT  
 GACCCCTGGAGCTCATAGTCTCAGGATCCTTGGAGGGTCCCAGGCCCTACCCACAAGGTCCTGCTCAA  
 CAGCTGCAGGCCCTGAGGACCAGCCCTCATGCCTACAGGGTCACTCCCCACAGTGGTCTGAGAAGGCA  
 CTGGGAGGTACTGATCGGGTCTTGGTGGTCTCCATCCTGCTTCTCTCCCTCCTCCTCTCTCCTCCTC  
 CAACACTGGCGTCAGGAAAACACAGGACATTGGCCCAGAGACAGGCTGATTTCCAACGTCCTCCAGGGG  
 CTGCCGAGCCAGAGCCCAAGGACGGGGCTACAGAGGAGGTCCAGCCAGCTGCTGACGTCCAGGGAGA  
 AAATTCTGTGCTGCCGTGAAGAACACACAGCCTGAGGACGGGGTGGAAATGGACACTCGGCAGAGCCCA  
 CACGATGAAGACCCCAAGCAGTACGATGCAAGGTGAAACTCCAGACCTAGGAGAGAAATGGCCT  
 CTCTCCCTCCCACTGTCTGGGAATTCCTGGACACAAAGGACAGACAGGCAGAAAGAGGACAGACAGAT  
 GGACACTGAGGCTGCTGCATCTGAAGCCCAAGGATGTGACCTACGCCCGGCTGCACAGCTTACCTC  
 AGACAGAAAGCAACTGAGCTCCTCCATCCCAGGAAGGGCTCTCCAGCTGAGCCAGTGTCTATGCCA  
 CTCTGGCCATCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC238292 representing NM\_001278426  
 Red=Cloning site Green=Tags(s)

MIPTFTALLCLGLSLGPRTHMQAGPLPKPTLWAEPSVSIWGNVSVTIWCQGTLEAREYRLDKEESPAPWD  
 RQNPLEPKNKARFSIPSMTEYAGRYRCYYRSPVGSQPSDPLELVMTGAYSKPTLSALPSPLVTSKSV  
 TLLCQSRSPMDTFLLIKERAAHPLLHLRSEHGAQQHQAEFPMSPVTSVHGGTYRCFSSHGF SHYLLSHPS  
 DPLELIVSGSLEGRPSPTRSVSTAAGPEDQPLMPTGSVPHSGLRRHWEVLIGVLVVSILLLSLLLFLL  
 QHWRQGHRTLAQRQADFQRPPGAAEPEPKDGGLQRRSSPAADVQGENFCAAVKNTQPEDGVEMDTRQSP  
 HDEDPAVVTYAKVKHSRPRREMASPPSPLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYARLHSFTL  
 RQKATEPPPSQEGASPAEPSVYATLAIH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_001278426

**ORF Size:** 1344 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](#)

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

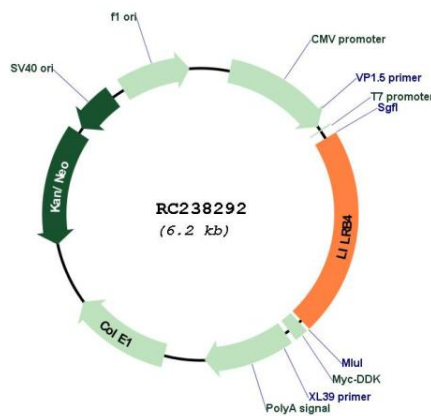
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001278426.3](#), [NP\\_001265355.2](#)  
**RefSeq Size:** 3902 bp  
**RefSeq ORF:** 1347 bp  
**Locus ID:** 11006  
**UniProt ID:** [Q8NHJ6](#)  
**Cytogenetics:** 19q13.42  
**Protein Families:** Transmembrane  
**MW:** 49.8 kDa

**Gene Summary:** This gene is a member of the leukocyte immunoglobulin-like receptor (LIR) family, which is found in a gene cluster at chromosomal region 19q13.4. The encoded protein belongs to the subfamily B class of LIR receptors which contain two or four extracellular immunoglobulin domains, a transmembrane domain, and two to four cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). The receptor is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. The receptor can also function in antigen capture and presentation. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC238292