

## Product datasheet for **RC239163**

### LILRB1 (NM\_001278398) Human Tagged ORF Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                                       |
| Product Name:      | LILRB1 (NM_001278398) Human Tagged ORF Clone              |
| Tag:               | Myc-DDK   |
| Symbol:            | LILRB1  |
| Synonyms:          | CD85J; ILT-2; ILT2; LIR-1; LIR1; MIR-7; MIR7; PIR-B; PIRB |
| Vector:            | pCMV6-Entry (PS100001)                                    |
| E. coli Selection: | Kanamycin (25 ug/mL)                                      |
| Cell Selection:    | Neomycin  |



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**ORF Nucleotide Sequence:**

>RC239163 representing NM\_001278398  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCCATCCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCCGACCCACGTGCAGGCAG  
 GGCACCTCCCAAGCCACCCCTCTGGGCTGAACCAGGCTCTGTGATCACCCAGGGAGTCCCTGTGACCCCT  
 CAGGTGTAGGGGGGCCAGGAGACCCAGGAGTACCGTCTATATAGAGAAAAGAAAACAGCACCCCTGGATT  
 ACACGGATCCCACAGGAGCTTGTGAAGAAGGGCCAGTTCCCCATCCCATCCATCACCTGGGAACACACAG  
 GGCGGTATCGCTGTTACTATGGTAGCGACTGCAGGCCGCTCAGAGAGCAGTGACCCCTGGAGCTGGT  
 GGTGACAGGAGCTACATCAAACCCACCCTCTCAGCCCAGCCCAGCCCCGTGTAAGTCAAGGAGGGAAT  
 GTAACCCCTCCAGTGTGACTCACAGGTGGCATTGATGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAAC  
 ACCACAATGCCTGAACCCAGCCCCATGCCCGTGGGTCGTCGCCGCCATCTTCTCCGTGGGCCCGT  
 GAGCCCGAGTCGAGGTGGTGGTACAGGTGCTATGCTTATGACTCGAAGTCTCCCTATGAGTGGTCTCTA  
 CCCAGTGTATCCCTGGAGCTCCTGGTCTAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCAGGTC  
 CTATCGTGGCCCCGAGGAGACCCTGACTCTGCAGTGTGGCTCTGATGCTGGCTACAACAGATTTGTTCT  
 GTATAAGGACGGGGAACGTGACTTCCTTCAGCTCGCTGGCGCACAGCCCCAGGCTGGGCTCTCCAGGCC  
 AACTTCACCCCTGGGCCCTGTGAGCCGCTCTACGGGGGCCAGTACAGATGCTACGGTGCACACAACCTCT  
 CCTCCGAGTGGTGGCCCCCAGCGACCCCTGGACATCCTGATCGCAGGACAGTTCTATGACAGAGTCTC  
 CCTCTCGGTGCAGCCGGGCCACGGTGGCCTCAGGAGAGAACGTGACCCATGGCGTCAAGATCAACGTACC  
 AATCTCAAAAATACCAGGCTGAATTCCCCTGGGTCCTGTGACCTCAGCCATGCGGGGACCTACAGGTG  
 CTACGGCTCACAGAGCTCAAACCCCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCA  
 GCAGGCCCTGAGGACCAGCCCTCACCCACCCGGTCCGATCCCAGAGTGGTCTGGGAAGGCACCTGG  
 GGGTTGTGATCGGCATCTTGGTGGCCGTCATCCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT  
 CCGACATCGACGTGAGGGCAAACACTGGACATCGACCCAGAGAAAGGCTGATTTCCAACATCCTGCAGGG  
 GCTGTGGGGCCAGAGCCACAGACAGAGGCCTGCAGTGGAGGTCCAGCCAGCTGCCGATGCCAGGAAG  
 AAAACCTCTATGCTGCCGTGAAGCACACAGCCTGAGGATGGGGTGGAGATGGACTCGGAGCCACACA  
 CGATGAAGACCCCGAGGAGTACGATGCGGAGGTGAAACACTCCAGACCTAGGAGAGAAATGGCCTCT  
 CCTCCTCCCCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGCGGAAGAGGACAGGCAGATGG  
 AACTGAGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCAGCTGCACAGCTTGACCCTCAG  
 ACGGGAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGCCCTCCTCAGCTGTGCCAGCATCTACGCCACT  
 CTGGCCATCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239163 representing NM\_001278398  
 Red=Cloning site Green=Tags(s)

MTPILTVLICLGLSLGPRTHVQAGHLPKPTLWAEPGSVITQGSPVTLRCQGGQETQEYRLYREKKTAPWI  
 TRIPQELVKKGQFPISITWEHTGRYRCYYGSDTAGRSESSDPLELVVTGAYIKPTLSAQSPVVNSGGN  
 VTLQCDSQVAFDGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPSRWWYRCYAYDSNSPYEWSL  
 PSDLLELLVVLGVSKKPSLSVQPGPIVAPEETLTLQCGSDAGYNRFVLYKDGEDFLQLAGAQPQAGLSQA  
 NFTLGPVSRSYGQYRCYGAHNLSSEWSAPSDPLDILIAQGFYDRVLSVQPGPTVASGENVTLLCQSQG  
 WMQTFLLTKEGAADDPWRLRSTYQSQKYQAEFPMGPVTSAHAGTYRCYGSQSSKPYLLTHPSDPLELVVS  
 AGPEDQPLTPTGSDPQSGLGRHLGVVIGILVAVILLLLLLLLLLLFLILRHRRQGKHWSTQQRKADFQHPAG  
 AVGPEPTDRGLQWRSSPAADAQEENLYAAVKHTQPEDGVEMDTRSPHDEDPQAVTYAEVKHSRPRREMAS  
 PPSPLSGEFLDKDRQAEEDRQMDTEAAASEAPQDVTYAQLHSLTLRREATEPPPSQEGSPAVPSIYAT  
 LAIH

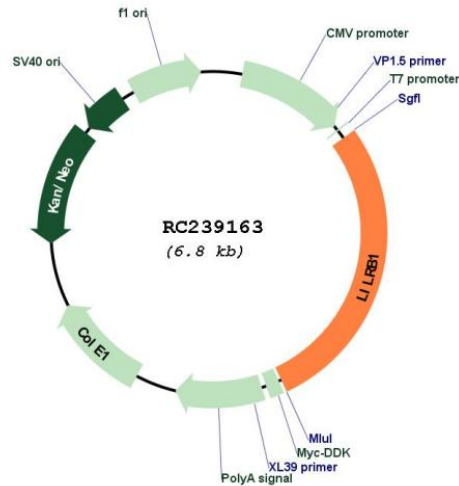
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001278398

**ORF Size:** 1902 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\\_001278398.2](#), [NP\\_001265327.2](#)

RefSeq Size: 2761 bp

RefSeq ORF: 1905 bp

Locus ID: 10859

UniProt ID: [Q8NHL6](#)

Cytogenetics: 19q13.42

Protein Families: Transmembrane

MW: 69.9 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. 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]