

## Product datasheet for **RC220404**

### LILRB1 (NM\_001081638) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB1 (NM_001081638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LILRB1
Synonyms:	CD85J; ILT-2; ILT2; LIR-1; LIR1; MIR-7; MIR7; PIR-B; PIRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC220404 representing NM\_001081638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCCATCCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCCGACCCACGTGCAGGCAG  
 GGCACCTCCCAAGCCACCCCTCTGGGCTGAACCAAGGCTCTGTGATCACCCAGGGAGTCCCTGTGACCCCT  
 CAGGTGTAGGGGGGCCAGGAGACCCAGGAGTACCGTCTATATAGAGAAAAGAAAACAGCACCCCTGGATT  
 ACACGGATCCCACAGGAGCTTGTGAAGAAGGGCCAGTTCCCCATCCCATCCATCACCTGGGAACACACAG  
 GGCGGTATCGCTGTTACTATGGTAGCGACTGCAGGCCGCTCAGAGAGCAGTGACCCCTGGAGCTGGT  
 GGTGACAGGAGCTACATCAAACCCACCCCTCTCAGCCCAGCCAGCCCGTGGTGAACCTCAGGAGGGAAT  
 GTAACCCCTCCAGTGTGACTCACAGGTGGCATTGATGGCTTCATTCTGTGAAGGAAGGAGAAGATGAAC  
 ACCACAATGCCTGAACCTCCAGCCCATGCCCGTGGGTCGTCCCGGCCATCTTCTCCGTGGGCCCGT  
 GAGCCCGAGTCGAGGTGGTGGTACAGGTGCTATGCTTATGACTCGAAGTCTCCCTATGAGTGGTCTCTA  
 CCCAGTGATCTCCTGGAGCTCCTGGTCTAGGTGTTTCTAAGAAGCCATCACTCTCAGTGACCCAGGTC  
 CTATCGTGGCCCTGAGGAGACCCTGACTCTGCAGTGTGGCTCTGATGCTGGCTACAACAGATTTGTTCT  
 GTATAAGGACGGGGAACGTGACTTCCTTCAGCTCGCTGGCGCACAGCCCAAGGCTGGGCTCTCCAGGCC  
 AACTTCACCCCTGGGCCCTGTGAGCCGCTCTACGGGGCCAGTACAGATGCTACGGTGCACACAACCTCT  
 CCTCCGAGTGGTGGGCCCCAGCGACCCCTGGACATCCTGATCGCAGGACAGTTCTATGACAGAGTCTC  
 CCTCTCGGTGCAGCCGGGCCCCACGGTGGCCTCAGGAGAGAACGTGACCCATGGCGTCTAAGATCAACGTACC  
 AATCTCAAAAATACCAGGCTGAATTCCCATGGGTCTGTGACCTCAGCCCATGCCGGGACCTACAGGTG  
 CTACGGCTCACAGAGCTCAAACCCCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCA  
 GGACCGTCTGGGGCCCAAGCTCCCGACAACAGGCCCACTCCACATCTGCAGGCCCTGAGGACCAGC  
 CCCTCACCCCAACCGGTGGATCCCCAGAGTGGTCTGGGAAGGCACCTGGGGTTGTGATCGGCATCTT  
 GGTGGCCGTATCCTACTGCTCCTCCTCCTCCTCCTCCTCCTCATCTCCGACATCGACGTGAGGGC  
 AAACACTGGACATCGACCCAGAGAAAGGCTGATTTCCAACATCCTGCAGGGGCTGTGGGGCCAGAGCCCA  
 CAGACAGAGGCCCTGCAGTGGAGTCCAGCCAGCTGCCGATGCCAGGAAGAAAACCTCTATGCTGCCGT  
 GAAGCACACAGCCTGAGGATGGGTGGAGATGGACTCGGAGCCACACGATGAAGACCCCAAGGCA  
 GTGACGTATGCCGAGGTGAAACTCCAGACCTAGGAGAGAAATGGCCTCCTCCTTCCCCTGTCTG  
 GGGAAATCCTGGACACAAAGGACAGACAGCGGGAAGAGGACAGGCAGATGGACACTGAGGCTGCTGCATC  
 TGAAGCCCCCAGGATGTGACCTACGCCAGCTGCACAGCTTACCCCTCAGACGGGAGGCAACTGAGCCT  
 CCTCCATCCCAGGAAGGGCCCTCTCAGCTGTGCCAGCATCTACGCCACTCTGGCCATCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220404 representing NM\_001081638  
Red=Cloning site Green=Tags(s)

MTPILTVLICLGLSLGPRTHVQAGHLPKPTLWAEPGSVITQGSPVTLRCQGGQETQEYRLYREKKTAPWITRIPQELVKKGQFPPIPSITWEHTGRYRCYYGSDTAGRSESSDPLELVVTGAYIKPTLSAQPSPVVNSGGNVTLQCDSQVAFDGFILCKEGEDHPQCLNSQPHARGSSRAIFSVGPVSPSRRWYRCYAYDSNSPYEWSLPSDLLELLVLGVSKKPSLSVQPGPIVAPEETLTLQCGSDAGYNRFVLYKDGEDFLQLAGAQPQAGLSQANFTLGPVSRSYGGQYRCYGAHNLSEWSAPSDPLDILIAQGFYDRVLSVQPGPTVASGENVTLLCQSQGMQTFLLTKEGAADDPWRLRSTYQSQKYQAEFPMGPVTSAHAGTYRCYGSQSSKPYLLTHPSDPLELVVSGPSGGPSSPTTGTSTASAGPEDQPLTPTGSDPQSGLGRHLGVVIGILVAVILLLLLLLLLLLILRHRRQGGKHWSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAADAQEENLYAAVKHTQPEDGVEMDTRSPHDEDPQAVTYAEVKHSRPREMASPPSPLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYAQLHSLTLRREATEPPSQEGSPAVPSIYATLAIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001081638

**ORF Size:** 1953 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\\_001081638.3](#), [NP\\_001075107.2](#)

**RefSeq Size:** 2918 bp

**RefSeq ORF:** 1956 bp

**Locus ID:** 10859

**UniProt ID:** [Q8NHL6](#)

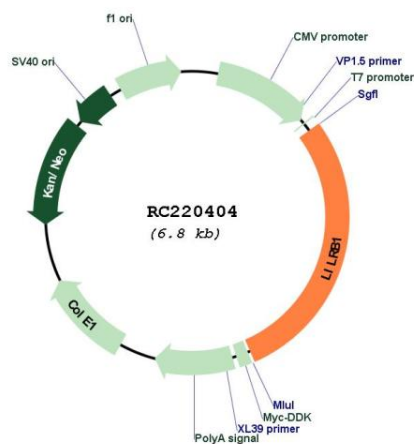
**Cytogenetics:** 19q13.42

**Protein Families:** Transmembrane

**MW:** 70.9 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]

### Product images:



Circular map for RC220404

