

## Product datasheet for **SC127469**

### LILRB1 (NM\_006669) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB1 (NM_006669) Human Untagged Clone
Tag:	Tag Free
Symbol:	LILRB1
Synonyms:	CD85J; ILT-2; ILT2; LIR-1; LIR1; MIR-7; MIR7; PIR-B; PIRB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127469 sequence for NM\_006669 edited (data generated by NextGen Sequencing)

```
ATGACCCCATCCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCAC
GTGCAGGCAGGGCACCTCCCAAGCCCACCCTCTGGGCTGAACCAGGCTCTGTGATCACC
CAGGGGAGTCTGTGACCCTCAGGTGTCAGGGGGCCAGGAGACCAGGAGTACCGTCTA
TATAGAGAAAAGAAAACAGCACTCTGGATTACACGGATCCCACAGGAGCTTGTGAAGAAG
GGCCAGTTCCCATCCCATCCATCACCTGGGAACATGCAGGGCGGTATCGCTGTTACTAT
GGTAGCGACACTGCAGGCCGCTCAGAGAGCAGTGACCCCTGGAGCTGGTGGTGACAGGA
GCCTACATCAAACCCACCCTCTCAGCCCAGCCCAGCCCCGTGGTAACTCAGGAGGAAT
GTAATCCTCCAGTGTGACTCACAGGTGGCATTGATGGCTTCACTGTGTAAGGAAGGA
GAAGATGAACACCCACAATGCCTGAACTCCAGCCCCATGCCCGTGGTCTGCCGCGCC
ATCTTCTCCGTGGGCCCGTGAGCCGAGTCGACAGGTGGTGTACAGGTGCTATGCTTAT
GACTCGAACTCTCCCTATGAGTGGTCTCTACCCAGTGATCTCTGGAGCTCCTGGTCCTA
GGTGTTCCTAAGAAGCCATCACTCTCAGTGCAGCCAGGTCCTATCGTGGCCCTGAGGAG
ACCCTGACTCTGCAGTGTGGCTCTGATGCTGGCTACAACAGATTTGTTCTGTATAAGGAC
GGGGAACGTGACTTCCTTCAGCTCGCTGGCGCACAGCCCAGGCTGGGCTCTCCAGGCC
AACTTCACCCCTGGGCCCTGTGAGCCGCTCTACGGGGGCCAGTACAGATGCTACGGTGCA
CACAACCTCTCCTCCGAGTGGTCCGCCCCAGTGACCCCTGGACATCCTGATCGCAGGA
CAGTTCTATGACAGAGTCTCCCTCTCGGTGCAGCCGGGCCACCGGTGGCCTCAGGAGAG
AACGTGACCCCTGTGTGTCAGTCAAGGGATGGATGCAAACCTTCTCTGACCAAGGAG
GGGGCAGCTGATGACCCATGGCGTCTAAGATCAACGTACCAATCTCAAAAATACCAGGCT
GAATTCATCCCATGGGTCTGTGACCTCAGCCCATGCGGGGACCTACAGGTGCTACGGCTCA
CAGAGCTCCAAACCCCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCA
GGACCGTCTGGGGGCCCCAGCTCCCGACAACAGGCCCCACCTCCACATCTGGCCCTGAG
GACCAGCCCTCACCCCCACCGGTCCGATCCCCAGAGTGGTCTGGGAAGGCACCTGGGG
GTTGTGATCGGCATCTTGGTGGCCGTCATCCTACTGCTCCTCCTCCTCCTCCTCCTCCTC
CTCATCTCCGACATCGACGTCAGGGCAAACACTGGACATCGACCCAGAGAAAGGCTGAT
TTCCAACATCCTGCAGGGGCTGTGGGGCCAGAGCCACAGACAGAGGCCTGCAGTGGAGG
TCCAGCCCAGTGCCGATGCCAGGAAGAAAACCTCTATGCTGCCGTGAAGCACACACAG
CCTGAGGATGGGGTGGAGATGGACTCGGAGCCACACGATGAAGACCCCCAGGCAGTG
ACGTATGCCGAGGTGAAACACTCCAGACCTAGGAGAGAAATGGCCTCTCCTCCTCCTCCCA
CTGTCTGGGAATTCCTGGACACAAAGGACAGACAGGCGGAAGAGGACAGGCAGATGGAC
ACTGAGGTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCAGCTGCACAGCTTG
ACCCTCAGACGGGAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGCCCTCTCCAGCTGTG
CCCAGCATCTACGCCACTCTGGCCATCCACTAG
```

Clone variation with respect to NM\_006669.3  
933 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006669 unedited  
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACACGCAGCTCAGCCTGG  
 GCGGCACAGCCAGATGCGAGATGCGTCTCTGCTGATCTGAGTCTGCCTGCAGCATGGACC  
 TGGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAGGGCTCA  
 TCCATCCACAGAGCAGGGCAGTGGGAGGAGACGCCATGACCCCATCCTCAGGTCTCTGA  
 TCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCACGTGCAGGCAGGGCACCTCCCCAAGC  
 CCACCCCTCTGGGCTGAACAGGCTCTGTGATCACCCAGGGGAGTCTGTGACCCCTCAGGT  
 GTCAGGGGGGCCAGGAGACCCAGGAGTACCGTCTATATAGAGAAAAGAAAACAGCACTCT  
 GGATTACACGGATCCACAGGAGCTTGTGAAGAAGGGCCAGTTCCCCATCCCATCCATCA  
 CCTGNGAACATGCAGGGCGGTATCGCTGTTACTATGGTAGCGACACTGCAGGCCGCTCAG  
 AGAGCAGTGACCCCTGGAGCTGGTGGTACAGGAGCCTACATCAAACCCACCCTCTCAG  
 CCCAGCCCAGCCCGTGGTGAACACTCAGGAGGAAATGTATCTCCAGTGTGACTCACAGG  
 TGGGCATTGATGGCTTCACTGTGTGAAGGAAGGAGAAGATGAACCCANCATGCCTGAA  
 CTTCCAGCCCATGCCGTGGTCTGCCGCGCCATCTTCCGTGGGCCCGTGAGCCGAG  
 TCGCAGTGGTGGTACAGTCTATGCTTATGACTCGAACTCTCCCTATGAGTGGGCTCTAC  
 CCATGATCTCCTGGAGCTCTGGTCTAGTTTTCTAAAGAGCCATACTCTCAGTGCAGCC  
 AGTTCTATCGGGCCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006669 unedited  
 TATGGACCGGCCGCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCTTTT  
 TTTTTTTTTTTAATTTGAGATGGAGTCTCCCTCTGTCGCCAGGCTGGAGAGCAGTGGT  
 CGATCTTGGCTCACTGAAACCTCTGACTCCCTGGTTCAAGCGATTCTCCTGCCTCAGCCT  
 CCCAAATAGCTGGGATTACAGGCACTGCCACCACATCCAGCTAATTTTTGTATTTTAGG  
 AGAGACAGGGTTTACCATTGTTGGCCAAGATGGTCTCGATCTCCTGAACTCGTGATCTGC  
 CCGCCTCGGCCTCCAAAGTGTGGAATTACAGGCGTGAGCCACCGTGCCTGCCCTAAA  
 TTTCTTATAGGAAAGCCAAGATCATTATTTCTACTTTTTTTCTTTCTAATTCATTCA  
 TTCGNGGCTTGTAGTTTTCCAGTTTCATCGCTTGTGTAATATTTACATTGCGATTCA  
 GTTTAATGCACTTTCTGACTTAGTTTTCTCAGCTACTTCATTGATTATTGAGAAGTCTGT  
 TGCTTTATTTCAAATTTAGAGACATTAGTTATTTATACTGCAGAATTGAGTGACCCT  
 AAAAGTCCCAGAGTCTCCTGGGTAGACCCAGGCTGGGTGGGGTCCAATGGTGCCCACT  
 GGGGGGGCAGCTCCCATGCATTCAGACTCCATGGAGTGTGGGGCTGCGTCCCCCCTG  
 GGCTAGTGGATGGCCAGAGTGGCGTAAATGCTGGGCACACGCTGGACAGGCCCTTTCTG  
 GGATGGAGGAGGCTCAGTTGCCTCCCCTCTGACGGTCAAGCTGTGCAGCCGGGCCGAAG  
 GCCCATTCTGGGGCCTCAGATGCAGAAGCCTCAGGGGCCATCTGCCTGCCCTTCTCC  
 GCTGCCTGCTGGTGGCCAGGACTCCCCAACAGGGCGAAAGAGGAAAGCCATCCCCC  
 AGCCTGGGGGCCACCCCGCACN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006669

**Insert Size:**

2880 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_006669.2](#), [NP\\_006660.1](#)

**RefSeq Size:** 2984 bp

**RefSeq ORF:** 1953 bp

**Locus ID:** 10859

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

**Cytogenetics:** 19q13.42

**Domains:** ig, IGc2, IG

**Protein Families:** Transmembrane

**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]

**Transcript Variant:** This variant (1) represents the longest transcript and encodes isoform 1.  
**Sequence Note:** A downstream translational start codon is selected for this RefSeq based on its better conservation in mammalian species and on the presence of a predicted signal peptide in the protein N-terminus. An upstream in-frame start codon is also present but is only conserved in primates, and use of the upstream start codon would result in a protein that is 17 aa longer at the N-terminus and lacks a predicted signal peptide. Leaky scanning by ribosomes may allow translation initiation at the downstream start codon.