

## Product datasheet for **SC316012**

### LILRB1 (NM\_001081638) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB1 (NM_001081638) 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:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001081638 edited  
 ATGACCCCATCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCGGACCCAC  
 GTGCAGGCAGGGCACCTCCCAAGCCCACCCTCTGGGCTGAACCAGGCTCTGTGATCACC  
 CAGGGGAGTCTGTGACCCTCAGGTGTCAGGGGGCCAGGAGACCAGGAGTACCGTCTA  
 TATAGAGAAAAGAAAACAGCACCTGGATTACACGGATCCCACAGGAGCTTGTGAAGAAG  
 GGCCAGTTCCTCATCCCATCACCTGGGAACATGCAGGGCGGTATCGCTGTTACTAT  
 GGTAGCGACACTGCAGGCCGCTCAGAGAGCAGTGACCCCTGGAGCTGGTGGTGACAGGA  
 GCCTACATCAAACCCACCCTCTCAGCCCAGCCCAGCCCCGTGGTAACTCAGGAGGAAT  
 GTAACCCTCCAGTGTGACTCACAGGTGGCATTGATGGCTTATTCTGTGTAAGGAAGGA  
 GAAGATGAACACCCACAATGCCTGAACTCCCAGCCCCATGCCCGTGGTTCGTCCCGGCC  
 ATCTTCTCCGTGGGCCCGTGAGCCGAGTCGCAGGTGGTGGTACAGGTGCTATGCTTAT  
 GACTCGAACTCTCCCTATGAGTGGTCTCTACCCAGTGATCTCCTGGAGCTCCTGGTCTA  
 GGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCAGGCTCTATCGTGGCCCCTGAGGAG  
 ACCCTGACTCTGCAGTGTGGCTCTGATGCTGGCTACAACAGATTTGTTCTGTATAAGGAC  
 GGGGAACGTGACTTCCTCAGCTCGCTGGCCGACAGCCCAGGCTGGGCTCTCCAGGCC  
 AACTTCACCTGGGCCCTGTGAGCCGCTCTACGGGGCCAGTACAGATGCTACGGTGCA  
 CACAACCTCTCCTCCGAGTGGTCCGGCCCCAGCGACCCCTGGACATCCTGATCGCAGGA  
 CAGTTCTATGACAGAGTCTCCCTCTCGGTGCAGCCGGGCCACCGTGGCCTCAGGAGAG  
 AACGTGACCTGTGTGTCAGTCAAGGATGGATGCAAACCTTCTTCTGACCAAGGAG  
 GGGGCAGCTGATGACCCATGGCGTCTAAGATCAACGTACCAATCTCAAAAATACCAGGCT  
 GAATTCATCCCATGGGTCTGTGACCTCAGCCCATGCGGGGACCTACAGGTGCTACGGCTCA  
 CAGAGCTCAAACCCCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCA  
 GGACCGTCTGGGGGCCAGCTCCCGACAACAGGCCCCACCTCCACATCTGCAGGCCCT  
 GAGGACCAGCCCCTACCCCCACCGGGTGGGATCCCAGAGTGGTCTGGGAAGGCACCTG  
 GGGTTGTGATCGGCATCTTGGTGGCCGTCATCCTACTGCTCCTCCTCCTCCTCCTC  
 TTCCTCATCCTCCGACATCGACGTGAGGCAAACACTGGACATCGACCCAGAGAAAGGCT  
 GATTTCAAACATCCTGCAGGGGCTGTGGGGCCAGAGCCCACAGACAGAGGCTGCAGTGG  
 AGGTCCAGCCCAGCTGCCGATGCCAGGAAGAAAACCTCTATGCTGCCGTGAAGCACACA  
 CAGCCTGAGGATGGGGTGGAGATGGACTCGGAGCCACACGATGAAGACCCCCAGGCA  
 GTGACGTATGCCGAGGTGAAACACTCCAGACCTAGGAGAGAAATGGCCTCTCCTCCTCC  
 CCACTGTCTGGGAATTCCTGGACACAAAGGACAGACAGCGGGAAGAGGACAGGCAGATG  
 GACACTGAGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCAGCTGCACAGC  
 TTGACCCTTAGACGGAAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGCCCTCTCCAGCT  
 GTGCCAGCATCTACGCCACTCTGGCCATCCACTAG

- Restriction Sites:** Please inquire
- ACCN:** NM\_001081638
- Insert Size:** 2000 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001081638.1](#), [NP\\_001075107.1](#)

**RefSeq Size:** 2859 bp

**RefSeq ORF:** 1956 bp

**Locus ID:** 10859

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

**Cytogenetics:** 19q13.42

**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 (3) uses an alternate in-frame splice site in the central coding region and differs in the 5' UTR, compared to variant 1. The resulting protein (isoform 3) is longer, compared to 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.