

Product datasheet for **SC320409**

LILRB1 (NM_001081639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB1 (NM_001081639) 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:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001081639 edited
GAGGAGGAACAGAAAAGAAAAGAAAAGAAAAGTGGAAACAAATATCTAAGAATGAGG
AGAAAGCAAGAAGAGTGACCCCTTGTGGGCACTCCATTGGTTTTATGGCGCCTCTACTT
TCTGGAGT:TTGTGTA AAAACAAAATATTATGGTCTTTGTGCACATTTACATCAAGCTCA
GCCTGGGCGGCACAGCCAGATGCGAGATGCGTCTCTGTGATCTGAGTCTGCCTGCAGCA
TGGACCTGGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAG
GGCTCATCCATCCACAGAGCAGGGCAGTGGGAGGAGACGCCATGACCCCATCTCACGG
TCCTGATCTGTCTCGGGCTGAGTCTGGGCCCGACCCACGTGCAGGCAGGGCACCTCC
CCAAGCCACCCCTCTGGGCTGAACCAGGCTCTGTGATCACCCAGGGGAGTCTGTGACCC
TCAGGTGTGAGGGGGCCAGGAGACCCAGGAGTACCGTCTATATAGAGAAAAGAAAACAG
CACCCCTGGATTACACGGATCCCACAGGAGCTTGTGAAGAAGGGCCAGTCCCATCCCAT
CCATCACCTGGGAACATGCAGGGCGGTATCGTGTACTATGGTAGCGACACTGCAGGCC
GCTCAGAGAGCAGTGACCCCTGGAGCTGGTGGTACAGGAGCCTACATCAAACCCACCC
TCTCAGCCAGCCAGCCCGTGGTGAACCTCAGGAGGGAATGTAACCCTCCAGTGTGACT
CACAGGTGGCATTGATGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAACACCCACAAT
GCCTGAACTCCCAGCCCATGCCCGTGGTCTGCCGCGCCATCTTCTCCGTGGGCCCCG
TGAGCCCGAGTCCGAGGTGGTGGTACAGGTGCTATGCTTATGACTCGAACTCTCCCTATG
AGTGGTCTCTACCCAGTGATCTCCTGGAGCTCCTGGTCTAGGTGTTTCTAAGAAGCCAT
CACTCTCAGTGCAGCCAGGTCTATCGTGGCCCTGAGGAGACCCGACTCTGCAGTGTG
GCTCTGATGCTGGCTACAACAGATTTGTTCTGTATAAGGACGGGGAACGTGACTTCTTC
AGCTCGTGGCGCACAGCCCAAGGCTGGGCTCTCCAGGCCAACTTACCCTGGGCCCTG
TGAGCCGCTCTACGGGGCCAGTACAGATGCTACGGTGCACACAACCTCTCCTCCGAGT
GGTCGGCCCCAGCGACCCCTGGACATCTGATCGCAGGACAGTCTATGACAGAGTCT
CCCTCTCGGTGCAGCCGGGCCACGGTGGCTCAGGAGAGAAGCTGACCCCTGCTGTGTC
AGTCACAGGGATGGATGCAAACTTCTCTGACCAAGGAGGGGCGAGCTGATGACCCAT
GGCGTCTAAGATCAACGTACCAATCTCAAAAATACCAGGCTGAATCCCATGGGTCTG
TGACCTCAGCCATGCGGGGACCTACAGGTGCTACGGCTCACAGAGCTCCAAACCCATACC
TGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCAGGACCGTCTGGGGGCCCA
GCTCCCGACAACAGGCCCCACCTCCACATCTGGCCCTGAGGACCAGCCCTCACCCCA
CCGGGTGGATCCCAGAGTGGTCTGGGAAGGCACCTGGGGTTGTGATCGGCATCTTGG
TGCCGTCATCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCGACATCGAC
GTCAGGGCAAACACTGGACATCGACCCAGAGAAAGGCTGATTTCCAACATCCTGCAGGG
CTGTGGGGCCAGAGCCACAGACAGAGGCTGCACTGGAGGTCCAGCCAGCTGCCGATG
CCCAGGAAGAAAACCTCTATGCTGCCGTGAAGCACACACAGCCTGAGGATGGGGTGGAGA
TGGACTC:G:GAGCCACACGATGAAGACCCCAAGGAGTGCATGATGCCGAGGTGA
AACCTCCAGACCTAGGAGAGAAATGGCCTCTCCTCCTTCCCACTGTCTGGGAATTCC
TGGACACAAGGACAGACAGGCGGAAGAGGACAGGCAGATGGACTGAGGCTGCTGCAT
CAACTGAGCCTCCTCCATCCCAGGAAGGGCCCTCTCCAGCTGTGCCAGCATCTACGCCA
CTCTGGCCATCCACTAGCCAGGGGGGACGCAGACCCACACTCCATGGAGTCTGGAAT
GCATGGGAGTGCACCCAGTGGACACCATTTGACCCACCCAGCCTGGATCTACCCCA
GGAGACTCTGGAACTTTTAGGGTCACTCAATTCTGCAGTATAAATAACTAATGTCTCT
ACAATTTTGAATAAAGCAACAGACTTCTCAATAATCAATGAAGTAGCTGAGAAACTAA
GTCAGAAAGTGCATTAACCTGAATCACAATGTAATATTACACATCAAGCGATGAACTG
GAAAACACAAGCCAGAAATGAATGAATTAGGAAAGAAAAAAGTAGGAAATGAATGATC
TTGGCTTTCTATAAGAAATTTAGGGCAGGGCACGGTGGCTCACGCTGTAATCCAGCA
CTTTGGGAGGCCGAGGCGGCAGATCACGAGTTCAGGAGATCGAGACCATTTGGCCAAC
ATGGTGAAACCTGTCTCTCCTAAAAATACAAAATTAGCTGGATGTGGTGGCAGTGCCT
GTAATCCCAGCTATTTGGGAGGCTGAGGAGGAGAAATCGCTTGAACCAGGGAGTCAGAGG
TTTCAGTGAGCCAAGATCGCACCCTGCTCTCCAGCCTGGCGACAGAGGGAGACTCCATC
TCAAAATAAAAAAAAAAAAAAAAAGAAAAGAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	Please inquire
ACCN:	NM_001081639
Insert Size:	3200 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:	<ol style="list-style-type: none"> 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:	<u>NM_001081639.1</u> , <u>NP_001075108.1</u>
RefSeq Size:	2859 bp
RefSeq ORF:	1956 bp
Locus ID:	10859
UniProt ID:	<u>Q8NHL6</u>
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 (4) uses an alternate in-frame splice site in the 3' coding region and differs in the 5' UTR, compared to variant 1. The resulting protein (isoform 4) 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.