

## Product datasheet for **RC238327**

### LILRB2 (NM\_001278406) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB2 (NM_001278406) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LILRB2
Synonyms:	CD85D; ILT-4; ILT4; LIR-2; LIR2; MIR-10; MIR10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238327 representing NM\_001278406  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCCCATCGTCACAGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCCGGTGCAGACAG  
 GGACCATCCCAAGCCCACCCTGTGGGCTGAGCCAGACTCTGTGATCACCCAGGGGAGTCCCGTCAACCT  
 CAGTTGTCAGGGGAGCCTTGAAGCCCAGGAGTACCGTCTATATAGGGAGAAAAAATCAGCATCTTGGATT  
 ACACGGATACGACCAGAGCTTGTGAAGAACGGCCAGTTCCACATCCATCCATCACCTGGGAACACACAG  
 GGCGATATGGCTGTCAGTATTACAGCCGCGCTCGGTGGTCTGAGCTCAGTGACCCCTGGTCTGGTGTGAT  
 GACAGGAGCTACCCAAAACCCACCCTCTCAGCCAGCCAGCCCTGTGGTGACCTCAGGAGGAAGGGTG  
 ACCCTCCAGTGTGAGTCACAGTGGCATTGGCGGCTTATTCTGTGTAAGGAAGGAGAAGATGAACACC  
 CACAATGCCTGAACCTCCAGCCCATGCCCGTGGTCTGCCCGCCATCTTCCGTGGCCCCGTGAG  
 CCCGAATCGCAGGTGGTGCACAGTGTATGGTTATGACTTGAACCTCCCTATGTGTGGTCTTACCC  
 AGTGATCTCCTGGAGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCGGTCTGT  
 TCATGGCCCTGGGAAAGCCTGACCTCCAGTGTGTCTCTGATGTGGCTATGACAGATTTGTTCTGTA  
 CAAGGAGGGGAAAGCTGACCTTCGCCAGCTCCCTGGCCGCGAGCCCAGGCTGGGCTCTCCAGGCCAAC  
 TTCACCTGGGCCCTGTGAGCCGCTCTACGGGGCCAGTACAGATGCTACGGTGACACAACTCTCCT  
 CTGAGTGTCTGGCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGGCACACCCCTCAT  
 CTCAGTGCAGCCAGGCCACAGTGGCTCAGGAGAGAACGTGACCTGCTGTGTGATCATGGCGGCAG  
 TTCCACACTTTCCTTCTGACCAAGCGGGAGCAGTGTGACCTCAGCCACGCGGGGACCTACAGGTGTA  
 ATCCTAAGTACCAGGCTGAATTCCTCATGAGTCTGTGACCTCAGCCACGCGGGGACCTACAGGTGTA  
 CGGCTCACTCAACTCCGACCCCTACCTGCTGTCTCACCCAGTGAGCCCTGGAGCTCGTGGTCTCAGGA  
 CCCTCCATGGGTTCCAGCCCCCACCACCGGTCCCATCTCCACCTGCAGGCCCTGAGGACCAGCCCC  
 TACCCCCACTGGGTCGGATCCCCAAAGTGGTGTG

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238327 representing NM\_001278406  
 Red=Cloning site Green=Tags(s)

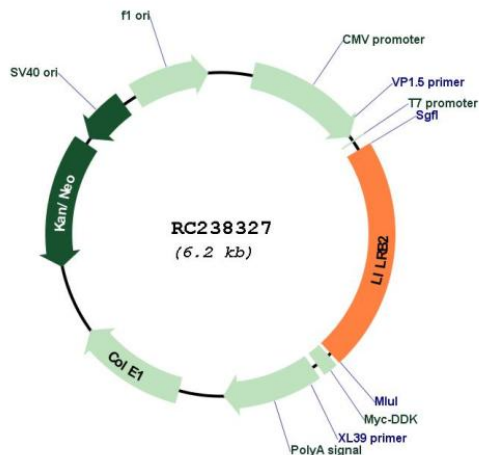
MTPIVTVL ICLGLSLGPRTRVQTGTIPKPTLWAEPSVITQGSPTLSCQGSLEAQEYRLYREKKSASWI  
 TRIRPELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVMTGAYPKPTLSAQSPVVTSGGRV  
 TLQCESQVAFGGF ILCKEGEDHPQLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSP  
 SDLLELLVPGVSKKPSLSVQPGVMAPGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQAN  
 FTLGPVRSYGGQYRCYGAHNL SSEC SAPSDPLDILITGQIRGTPFISVQPGPTVASGENVTLQCQSWRQ  
 FHTFLLTKAGAADAPLRLRSIHEYPKYQAEFPMSPVTSAHAGTYRCYGLNSDPYLLSHPSEPLELVVSG  
 PSMGSSPPPTGP ISTPAGPEDQPLTPTGSDPQSGE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001278406

**ORF Size:** 1365 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001278406.2, NP_001265335.2</u>
<b>RefSeq Size:</b>	1422 bp
<b>RefSeq ORF:</b>	1368 bp
<b>Locus ID:</b>	10288
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	49.8 kDa
<b>Gene Summary:</b>	<p>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]</p>