

Product datasheet for **RC238639**

LILRB2 (NM_001278405) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB2 (NM_001278405) 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:

>RC238639 representing NM_001278405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCCATCGTCACAGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCCGGTGCAGACAG
 GGACCATCCCAAGCCACCCTGTGGGCTGAGCCAGACTCTGTGATCACCGAGGGAGTCCCGTCAACCT
 CAGTTGTCAGGGGAGCCTTGAAGCCAGGAGTACCGTCTATATAGGGAGAAAAATCAGCATCTTGATT
 ACACGGATACGACCAGAGCTTGTGAAGAACGGCCAGTTCCACATCCATCCATCACCTGGGAACACACAG
 GGCGATATGGCTGTCAGTATTACAGCCGCGCTCGGTGGTCTGAGCTCAGTGACCCCTGGTCTGGTGTGAT
 GACAGGAGCCTACCCAAAACCCACCCTCTCAGCCAGCCAGCCCTGTGGTGACCTCAGGAGGAAGGGTG
 ACCCTCCAGTGTGAGTCACAGTGGCATTGGCGGCTTATTCTGTGAAGGAAGGAGAAGTGAACACC
 CACAATGCCTGAACTCCAGCCCATGCCCGTGGTCTGCCGCGCCATCTTCCGTGGCCCCGTGAG
 CCCGAATCGCAGGTGGTGCACAGTGTATGGTTATGACTTGAAGTCTCCCTATGTGTGGTCTTACCC
 AGTGATCTCCTGGAGCTCCTGGTCCCAGGTGTTCTAAGAAGCCATCACTCTCAGTGCAGCCGGGTCTG
 TCATGGCCCTGGGAAAGCCTGACCTCCAGTGTGTCTCTGATGTGGGCTATGACAGATTTGTTCTGTA
 CAAGGAGGGGAACGTGACCTTCGCCAGCTCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCAGGCCAAC
 TTCACCTGGGCCCTGTGAGCCGCTCCTACGGGGCCAGTACAGATGCTACGGTGACACAACTCTCCT
 CTGAGTGTCTGGCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGGCACACCCCTCAT
 CTCAGTGCAGCCAGGCCACAGTGGCTCAGGAGAGAACGTGACCTGCTGTGTGATCATGGCGGCAG
 TTCCACACTTTCCTTCTGACCAAGGCGGGAGCAGTGTGACCTCAGCCACGCGGGGACCTACAGGTCTA
 ATCCTAAGTACCAGGCTGAATTCCTCATGAGTCTGTGACCTCAGCCACGCGGGGACCTACAGGTCTA
 CGGCTCACTCAACTCCGACCCCTACCTGCTGTCTACCCAGTGAGCCCTGGAGCTCGTGGTCTCAGGA
 CCCTCCATGGGTTCCAGCCCCCACCACCGGTCCCATCTCCACCTGCAGGCCCTGAGGACCAGCCCC
 TCACCCCACTGGGTGGATCCCAAGTGGTCTGGGAAGGCACCTGGGGTTGTGATCGGCATCTTGGT
 GGCCGTCGTCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCATCTCCGACATCGACGTGAGGGCAA
 CACTGGACATCGAGTCCAGCCAGTGCCGACGCCAGGAAGAAAACCTCTATGTGCCG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238639 representing NM_001278405
 Red=Cloning site Green=Tags(s)

MTPIVTVL ICLGLSLGPRTRVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWI
 TRIRPELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLMTGAYPKPTLSAQSPVVTSGGRV
 TLQCESQVAFGGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSP
 SDLLELLVPGVSKKPSLSVQPGVMAPGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQAN
 FTLGPVRSYGGQYRCYGAHNLSECSAPSDPLDILITGQIRGTPFISVQPGPTVAGSENVTLQCQSWRQ
 FHTFLLTKAGAADAPLRRLRSIHEYPKYQAEFPMSPVTSAHAGTYRCYGSLSNDPYLLSHPSEPLELVVSG
 PSMGSSPPPTGPISTPAGPEDQPLTPTGSDPQSLGRHLGVVIGILVAVVLLLLLLLLLFLILRHRRQGK
 HWTSSPAQLPTRKKTSMPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

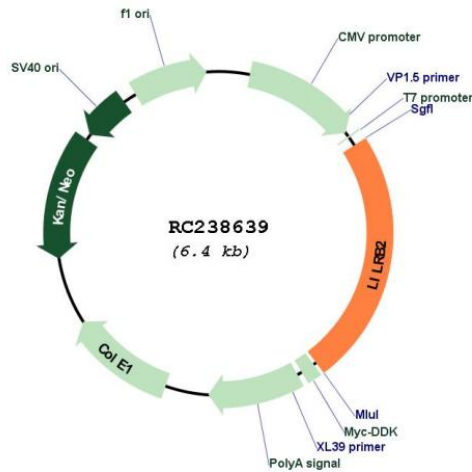
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001278405

ORF Size: 1530 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:	<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_001278405.2, NP_001265334.2</u>
RefSeq Size:	2646 bp
RefSeq ORF:	1533 bp
Locus ID:	10288
Cytogenetics:	19q13.42
Protein Families:	Transmembrane
MW:	55.9 kDa
Gene Summary:	<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>