

## Product datasheet for **RG238639**

### LILRB2 (NM\_001278405) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB2 (NM_001278405) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LILRB2
Synonyms:	CD85D; ILT-4; ILT4; LIR-2; LIR2; MIR-10; MIR10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238639 representing NM\_001278405.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCCCCATCGTCACAGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCAGGACCCCGTGCAGACA
GGGACCATCCCCAAGCCACCCTGTGGCTGAGCCAGACTCTGTGATCACCCAGGGGAGTCCCGTACC
CTCAGTTGT CAGGGGAGCCTTGAAGCCAGGAGTACCGTCTATATAGGGAGAAAAATCAGCATCTTGG
ATTACACGGATACGACCAGAGCTTGTGAAGAACGGCCAGTTCACATCCCATCCATCACCTGGGAACAC
ACAGGGCGATATGGCTGT CAGTATTACAGCCGCGCTCGGTGGTCTGAGCTCAGTGACCCCTGGTCTG
GTGATGACAGGAGCCTACCCAAAACCCACCCTCTCAGCCAGCCAGCCCTGTGGTGACCTCAGGAGGA
AGGGTGACCTCCAGTGTGAGTACAGGTGGCATTGGCGGCTTATTCTGTGTAAGGAAGGAGAAGAT
GAACACCCACAATGCCTGAACCTCCAGCCCATGCCCGTGGTCTGCCGCGCATCTTCTCCGTGGGC
CCCGTGAGCCGAATCGCAGGTGGTGCACAGGTGCTATGGTTATGACTTGAACCTCTCCATGTGTGG
TCTTACCAGTGTCTCTGGAGCTCCTGGTCCAGGTGTTCTAAGAAGCCATCACTCTCAGTGCAG
CCGGGTCTGTGATGGCCCTGGGGAAAGCCTGACCCTCAGTGTGTCTGTGATGTCGGCTATGACAGA
TTTGTCTGTACAAGGAGGGGAACGTGACCTTCGCCAGCTCCCTGGCCGCGAGCCCAAGCTGGGCTC
TCCCAGGCCAACTTACCTGGGCCCTGTGAGCCGCTCCTACGGGGGCCAGTACAGATGCTACGGTGCA
CACAACTCTCTCTGAGTGTCTGGCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGT
GGCACACCCTTCACTCAGTGCAGCCAGGCCACAGTGGCTCAGGAGAGAACGTGACCCTGCTGTGT
CAGTCAATACACGAATATCCTAAGTACCAGGCTGAATCCCCATGAGTCTGTGACCTCAGCCAGCCG
GGGACTACAGGTGCTACGGCTCACTCACTCCGACCCCTACCTGTGTCTCAGCCAGTGCAGCCCTG
GAGTCTGTGGTCTCAGGACCCTCCATGGGTTCCAGCCCCCACCACCGTCCCATCTCCACACCTGCA
GGCCCTGAGGACCAGCCCTCACCCCACTGGGTGGGATCCCCAAAGTGGTCTGGGAAGGACCTGGGG
GTTGTGATCGGCATCTTGGTGGCCGTCGTCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTC
CGACATCGACGTGAGGCAAACTGGACATCGAGTCCAGCCAGCTGCCGACGCCAGGAAGAAAAACC
TCTATGCTGCCG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238639  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTPIVTVL ICLGLSLGPRTRVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASW
ITRIRPELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLMTGAYPKPTLSAQSPVVTSGG
RVTLQCESQVAFGGF ILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVW
SSPSDLLELLVPGVSKKPSLSVQPGVMPAGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGL
SQANFTLGPVRSYGGQYRCYGAHNLSSCSAPS DPLDILITGQIRGTFPISVQPGPTVASGENVTLLC
QSWRQFHTFLLTKAGAADAPLRRLRSIHEYPKYQAEFPMSPVTSAHAGTYRCYGLNSDPYLLSHPSEPL
ELVVS GSPMSGSSPPTGPISTPAGPEDQPLTPTGSDPQSGLRHLGVVIGILVAVVLLLLLLLLLFLIL
RHRRQKGHWTSSPAQLPTPRKTSMLP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

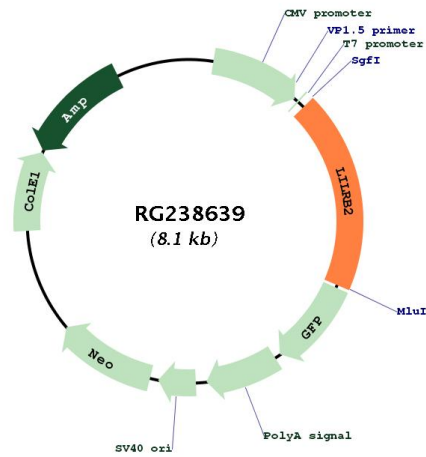
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001278405
<b>ORF Size:</b>	1530 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_001278405.2</a> , <a href="#">NP_001265334.2</a>
<b>RefSeq Size:</b>	2646 bp
<b>RefSeq ORF:</b>	1533 bp
<b>Locus ID:</b>	10288
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	55.9 kDa
<b>Gene Summary:</b>	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]