

## Product datasheet for **RG211228**

### **LILRB3 (NM\_006864) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                       |
| Product Name:             | LILRB3 (NM_006864) Human Tagged ORF Clone                 |
| Tag:                      | TurboGFP  |
| Symbol:                   | LILRB3  |
| Synonyms:                 | CD85A; HL9; ILT-5; ILT5; LILRA6; LIR-3; LIR3; PIR-B; PIRB |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                    |



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**ORF Nucleotide Sequence:**

>RG211228 representing NM\_006864  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCCGTGCAGGCAG  
 GGCCCTTCCCAAACCCACCCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGAGCCCGTGACCAT  
 CTGGTGTAGGGGAGCCTGGAGGCCAGGAGTACCGACTGGATAAAGAGGGAAGCCAGAGCCCTTGGAC  
 AGAAATAACCCACTGGAACCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCGG  
 GGAGATACCGCTGCCACTATTACAGCTCTGCAGGCTGGTCCAGAGCCAGCGACCCCTGGAGCTGGTGT  
 GACAGGATTCTACAACAAACCCACCCCTCTCAGCCCTGCCAGCCCTGTGGTGGCCTCAGGGGGAATATG  
 ACCCTCCGATGTGGCTCACAGAAGGATATCACCATTTTGTCTGATGAAGGAAGGAGAACCAGCTCC  
 CCCGACCCTGGACTCACAGCAGCTCCACAGTGGGGGTCCAGGCCCTGTTCCCTGTGGCCCCGTGAA  
 CCCAGCCACAGGTGGAGTTACATGCTATTACTATTATGAACACCCCCAGGTGTGGTCCCACCCC  
 AGTGACCCCTGGAGATTCTGCCCTCAGGCGTGTCTAGGAAGCCCTCCCTCCTGACCCTGCAGGGCCCTG  
 TCCTGGCCCTGGGCAGAGCCTGACCCTCCAGTGTGGCTCTGATGTGGCTACGACAGATTTGTTCTGTA  
 TAAGGAGGGGAAACGTGACTTCCACAGCGCCCTGGCCAGCAGCCCAAGGCTGGGCTCTCCAGGCCAAC  
 TTCACCCTGGGCCCTGTGAGCCGCTCCACGGGGCCAGTACAGGTGCTATGGTGACACAACTCTCCT  
 CCGAGTGGTGGCCCCAGCGACCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCGTCTCCCT  
 GTCAGCACAGCCGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTGATCATGGTGGCAG  
 TTTGACACTTTCCTTCTGACCAAGAAGGGGCAGCCATCCCCACTGCGTCTGAGATCAATGTACGGAG  
 CTCATAAGTACCAGGCTGAATTCCTCATGAGTCTGTGACCTCAGCCACGCGGGGACACAGGTTGCTA  
 CGGCTCATACAGCTCCAACCCCACTGCTGTCTTTCCCAAGTACGCCCCCTGGAACCTCATGGTCTCAGGA  
 CACTCTGGAGGCTCCAGCCTCCACCCACAGGGCCGCTCCACACCTGGTCTGGGAAGATACCTGGAGG  
 TTTTGATTGGGGTCTCGGTGGCCTTCGTCTGCTCTTCTCCTCCTCTTCTCCTCCTCCGACGTCA  
 GCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCTGCAGGGGCTGCGGAG  
 ACAGAGCCCAAGGACAGGGGCTGCTGAGGAGGTCCAGCCAGCTGCTGACGTCCAGGAAGAAAACCTCT  
 ATGCTGCCGTGAAGGACACAGTCTGAGGACAGGTTGGAGCTGGACAGTCCAGAGCCACACGATGAAGA  
 CCCCCAGGACGTGACGTATGCCCGGTGAAACTCCAGTCTAGGAGAGAAATGGCCTCTCCTCCCTCC  
 TCACTGTCTGGGGAATTCCTGGACAAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACACTGAGG  
 CTGCTGCATCTGAAGCCTCCAGGATGTGACCTACGCCAGCTGCACAGCTTGACCCTTAGACGGAAGGC  
 AACTGAGCCTCCTCCATCCAGGAAGGGGAACCTCCAGCTGAGCCAGCATCTACGCCACTCTGGCCATC  
 CAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211228 representing NM\_006864  
 Red=Cloning site Green=Tags(s)

MTPALTALLCLGLSLGPRTRVQAGPFKPTLWAEPGSVISWSPVTIWCQGSLEAEYRLDKEGSPEPLD  
 RNNPLEPKNKARFSIPSMTEHHAGRYRCHYYSSAGWSEPSDPLELVMTGFYNKPTLSALPSPVVASGGNM  
 TLRCSGQKGYHHFVLMKEGEHQLPRTLDSQQLHSGGFQALFPVGPVNPSSHRWRFCTYYYYMNTPVWVSH  
 SDPLEIILPSGVSARKPSLLTLQGPVLPAGQSLTLQCGSDVGYDRFVLYKEGERDFLQRPQQPQAGLSQAN  
 FTLGPVSRSHGGYRCYGAHNLSEWSAPSDPLNILMAGQIYDVTVSLSAQPGPTVASGENVTLLCQSWWQ  
 FDTFLLTKEGAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSYSSNPHELLSFPSEPLELMVSG  
 HSGGSSLPTGPPSTPGLGRYLEVLIGVSVAFVLLLLFLLFLLRRQRHSHKRTSDQRKTDQRPAGAAE  
 TEPKDRGLLRSSPAADVQEENLYAAVKDTQSEDRVELDSQSPHDEDPQAVTYAPVKHSSPRREMASPPS  
 SLSGEFLDKDRQVEEDRQMDTEAAASEASQDVTYAQLHSLTLRRKATEPPPSQEGEPPAEPISYATLAI  
 H

**TRTRPLE** – GFP Tag – V

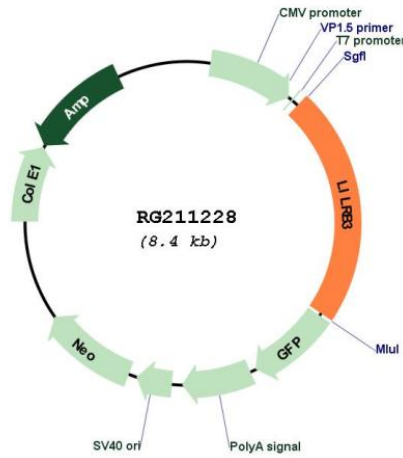
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_006864

ORF Size: 1893 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>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>                | <a href="#">NM_006864.2</a> , <a href="#">NP_006855.2</a>  |
| <b>RefSeq Size:</b>           | 2840 bp  |
| <b>RefSeq ORF:</b>            | 1896 bp  |
| <b>Locus ID:</b>              | 11025  |
| <b>Cytogenetics:</b>          | 19q13.42   |
| <b>Domains:</b>               | ig, IGc2, IG   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Protein Pathways:</b>      | B cell receptor signaling pathway  |
| <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] |