

Product datasheet for **RG218064**

LILRB3 (NM_001081450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB3 (NM_001081450) 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:

>RG218064 representing NM_001081450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCCGTGCAGGCAG
 GGCCCTTCCCAAACCCACCCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGGAGCCCGTGACCAT
 CTGGTGTGAGGGGAGCCAGGAGGCCAGGAGTACCGACTGCATAAAGAGGGAAGCCAGAGCCCTTGGAC
 AGAAATAACCCACTGGAACCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCAG
 GGAGATACCGCTGCCACTATTACAGCTCTGAGGCTGGTCCAGAGCCAGCGACCCCTGGAGATGGTGTGAT
 GACAGGAGCTACAGCAAACCCACCCCTCTCAGCCCTGCCAGCCCTGTGGTGGCCCTCAGGGGGGAATATG
 ACCCTCCGATGTGGCTCACAGAAGGGATATCACCATTTTGTCTGATGAAGGAAGGAGAACCAGCTCC
 CCCGGACCCTGGACTCACAGCAGCTCCACAGTCGGGGTCCAGGCCCTGTTCCCTGTGGCCCCGTGAC
 CCCAGCCACAGGTGGAGGTTACATGCTATTACTATTATACAAACACCCCTGGGTGTGGTCCCACCCC
 AGTGACCCCTGGAGATTCTGCCCTCAGGCGTGTCTAGGAAGCCCTCCCTCCTGACCCTGCAGGGCCCTG
 TCCTGGCCCTGGGCAGAGCCTGACCCTCCAGTGTGGCTCTGATGTGGGTACAACAGATTTGTTCTGTA
 TAAGGAGGGGGAACGTGACTTCCCTCCAGCGCCCTGGCCAGCAGCCCAGGCTGGGCTCTCCAGGCCAAC
 TTCACCCTGGGCCCTGTGAGCCCTCCAATGGGGCCAGTACAGGTGCTACGGTGACACAACTCTCCT
 CCGAGTGGTGGCCCCCAGCGACCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCGTCTCCCT
 GTCAGCACAGCCGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTGATCATGGTGGCAG
 TTTGACACTTTCCTTCTGACCAAAGAAGGGCAGCCCATCCCCACTGCTGTGATCAATGTACGGAG
 CTCATAAGTACCAGGCTGAATTCCTCATGAGTCTGTGACCTCAGCCACGCGGGGACCTACAGGTGCTA
 CGGCTCATACAGCTCAAACCCCACTGCTGTCTCACCCAGTGAGCCCTGGAGCTCGTGGTCTCAGGA
 CACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCCACACCTGGTCTGGGAAGATACCTGGAGG
 TTTTGATTGGGGTCTCGGTGGCCTTCGTCTGCTCTTCTCCTCCTCTTCTCCTCCTCCGACGTCA
 GCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCTGCAGGGGCTGCGGAG
 ACAGAGCCCAAGGACAGGGGCTGCTGAGGAGGTCCAGCCAGCTGCTGACGTCCAGGAAGAAAACCTCT
 ATGCTGCCGTGAAGGACACAGTCTGAGGACAGGTTGGAGCTGGACAGTCCAGAGCCACACAGATGA
 AGACCCCAAGCAGTACGATATGCCCGGTGAAACACTCCAGTCTAGGAGAGAAATGGCCTCTCCTCCC
 TCCTACTGTCTGGGAATTCCTGGACAAAAGGACAGACAGGTGGAAGAGGACAGCAGATGGACTG
 AGGCTGCTGCATCTGAAGCCTCCAGGATGTGACCTACGCCAGCTGCACAGCTTGACCCTTAGACGGAA
 GGCAACTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGGCC
 ATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218064 representing NM_001081450
 Red=Cloning site Green=Tags(s)

MTPALTALLCLGLSLGPRTRVQAGPFPKPTLWAEPGSVISWGSPTIWCQGSQEAQEYRLHKEGSPEPLD
 RNNPLEPKNKARFSIPSMTEHHAGRYRCHYYSSAGWSEPSDPLEMVMGTGAYSKPTLSALPSPVVASGGNM
 TLRCSGQKGYHHFVLMKEGEHQLPRTLDSQQLHSRGFQALFPVGPVTPSHRWRFTCYYYYNTNPWWWSHP
 SDPLEIILPSGVSARKPSLLTLQGPVLPAGQSLTLQCGSDVGYNRFVLYKEGERDFLQRPQQPQAGLSQAN
 FTLGPVSPSNGGQYRCYGAHNLSEWSAPSDPLNILMAGQIYDVTSLSAQPGPTVASGENVTLLCQSWWQ
 FDTFLLTKEGAAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSYSSNPHELLSHPSEPLELVVSG
 HSGGSSLPTGPPSTPGLGRYLEVLIGVSVAFVLLLFLLFLRRQRHSHKRTSDQRKTDQRPAGAAE
 TEPKDRGLLRSSPAADVQEENLYAAVKDTQSEDRVELDSQQSPHDEDPQAVTYAPVKHSSPRREMASSP
 SLSGFEFLDKDRQVEEDRQMDTEAAASEASQDVTYAQLHSLTLRRKATEPPPSQEGEPPAEPESIYATLA
 IH

TRTRPLE - GFP Tag - V

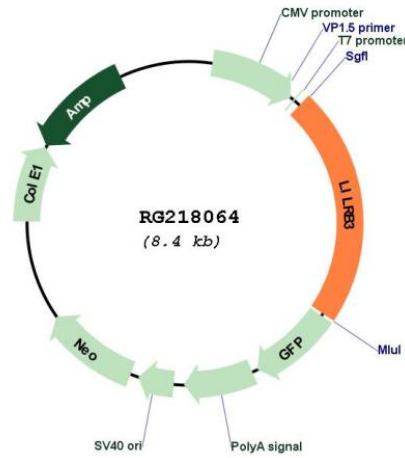
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001081450

ORF Size: 1896 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:	NM_001081450.1 , NP_001074919.1
RefSeq Size:	2843 bp
RefSeq ORF:	1899 bp
Locus ID:	11025
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	B cell receptor signaling pathway
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]