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Product datasheet for RC205186

LILRB4 (NM_006847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LILRB4 (NM_006847) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LILRB4
Synonyms:	CD85K; HM18; ILT3; LILRB5; LIR-5; LIR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205186 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCCCCACCTTCACGGCTCTGCTCTGCCTCGGGCTGAGTCTGGGCCCCAGGACCGACATGCAGGCAG
GGCCCCTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGGAACTCTGTGACCAT
CTGGTGTCAGGGGACCCTGGAGGCTCGGGAGTACCGTCTGGATAAAGAGGAAAGCCCAGCACCCTGGGAC
AGACAGAACCCACTGGAGCCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGGACTATGCAG
GGAGATACCGCTGTTACTATCGCAGCCCTGTAGGCTGGTCACAGCCCAGTGACCCCCTGGAGCTGGTGAT
GACAGGAGCCTACAGTAAACCCACCCTTTCAGCCCTGCCGAGTCCTCTTGTGACCTCAGGAAAGAGCGTG
ACCCTGCTGTGTCAGTCACGGAGCCCAATGGACACTTTCCTTCTGATCAAGGAGCGGGCAGCCCATCCCC
TACTGCATCTGAGATCAGAGCACGGAGCTCAGCAGCACCAGGCTGAATTCCCCATGAGTCCTGTGACCTC
AGTGCACGGGGGGACCTACAGGTGCTTCAGCTCACACGGCTTCTCCCACTACCTGCTGTCACACCCCAGT
GACCCCCTGGAGCTCATAGTCTCAGGATCCTTGGAGGGTCCCAGGCCCTCACCCACAAGGTCCGTCTCAA
CAGCTGCAGGCCCTGAGGACCAGCCCCTCATGCCTACAGGGTCAGTCCCCCACAGTGGTCTGAGAAGGCA
CTGGGAGGTACTGATCGGGGTCTTGGTGGTCTCCATCCTGCTTCTCTCCCTCCTCCTCTTCCTCCTCCTC
CAACACTGGCGTCAGGGAAAACACAGGACATTGGCCCAGAGACAGGCTGATTTCCAACGTCCTCCAGGGG
CTGCCGAGCCAGAGCCCAAGGACGGGGGCCTACAGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGGAGA
AAACTTCTGTGCTGCCGTGAAGAACACACAGCCTGAGGACGGGGTGGAAATGGACACTCGGCAGAGCCCA
CACGATGAAGACCCCCAGGCAGTGACGTATGCCAAGGTGAAACACTCCAGACCTAGGAGAGAAATGGCCT
CTCCTCCCTCCCCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGCAGAAGAGGACAGACAGAT
GGACACTGAGGCTGCTGCATCTGAAGCCCCCCAGGATGTGACCTACGCCCGGCTGCACAGCTTTACCCTC
AGACAGAAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGGCCTCTCCAGCTGAGCCCAGTGTCTATGCCA
CTCTGGCCATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205186 protein sequence
Red=Cloning site Green=Tags(s)

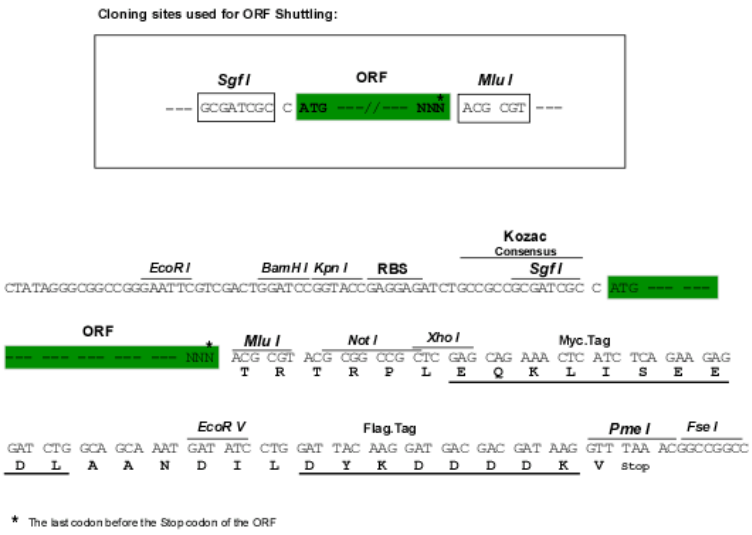
MIPTFTALLCLGLSLGPRTDMQAGPLPKPTLWAEPGSVISWGNSVTIWCQGTLEAREYRLDKEESPAPWD
RQNPLEPKNKARFSIPSMTEDYAGRYRCYYRSPVGWSQPSDPLELVMTGAYSKPTLSALPSPLVTSGKSV
TLLCQSRSPMDTFLLIKERAAHPLLHLRSEHGAQQHQAEFPMSPVTSVHGGTYRCFSSHGFSHYLLSHPS
DPLELIVSGSLEGPRPSPTRSVSTAAGPEDQPLMPTGSVPHSGLRRHWEVLIGVLVVSILLLSLLLFLLL
QHWRQGKHRTLAQRQADFQRPPGAAEPEPKDGGLQRRSSPAADVQGENFCAAVKNTQPEDGVEMDTRQSP
HDEDPQAVTYAKVKHSRPRREMASPPSPLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYARLHSFTL
RQKATEPPPSQEGASPAEPSVYATLAIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6537_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006847

ORF Size: 1344 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

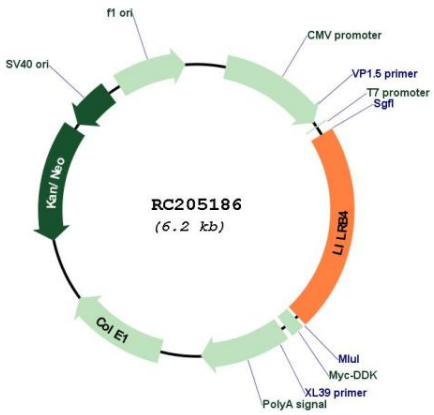
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

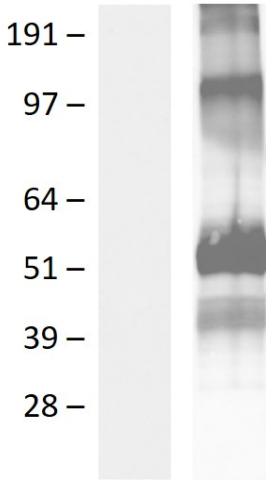
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006847.2
RefSeq Size:	2097 bp
RefSeq ORF:	1346 bp
Locus ID:	11006
Cytogenetics:	19q13.42
Domains:	ig
Protein Families:	Transmembrane
MW:	49.3 kDa
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. The receptor can also function in antigen capture and presentation. 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]

Product images:



Circular map for RC205186



Western blot validation of overexpression lysate (Cat# [LY421151]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220932] using transfection reagent PEI.