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Product datasheet for RC237201

LAIR1 (NM_001289025) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAIR1 (NM_001289025) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAIR1
Synonyms:	CD305; LAIR-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237201 representing NM_001289025 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTCCCCACCCCACCGCCCTCCTGGGCCTAGTGCTCTGCCTGGCCCAGACCATCCACACGCAGGAGG ATCTGCCCAGACCCTCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGGAGCCATGTGACTTTCGT GTGCCGGGGCCCGGTTGGGGTTCAAACATTCCGCCTGGAGAGGGACAGTAGATCCACATACAATGATACT GAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATTCCGCATTGACTCAGTAAGAGAAGGAA ATGCCGGGCTTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTACCTGGAGCT GCTGGTGAAAGAAAGCTCTGGAGGCCCGGACTCCCCGGACACAGAGCCCGGCTCCTCAGCTGGACCCACG CAGAGGCCGTCGGACAACAGTCACAATGAGCATGCACCTGCTTCCCAAGGCCTGAAAGCTGAGCATCTGT ATATTCTCATCGGGGTCTCAGTGGTCTTCCTCTTCTGTCTCCTCCTCCTGGTCCTCTTCTGCCTCCATCG CCAGAATCAGATAAAGCAGGGGCCCCCCAGAAGCAAGGACGAGGAGCAGAAGCCACAGCAGAGGCCTGAC CTGGCTGTTGATGTTCTAGAGAGGACAGCAGACAAGGCCACAGTCAATGGACTTCCTGAGAAGGACAGAG AGACGGACACCTCGGCCCTGGCTGCAGGGAGTTCCCAGGAGGTGACGTATGCTCAGCTGGACCACTGGGC CCTCACACAGAGGACAGCCCGGGCTGTGTCCCCACAGTCCACAAAGCCCATGGCCGAGTCCATCACGTAT GCAGCCGTTGCCAGACAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

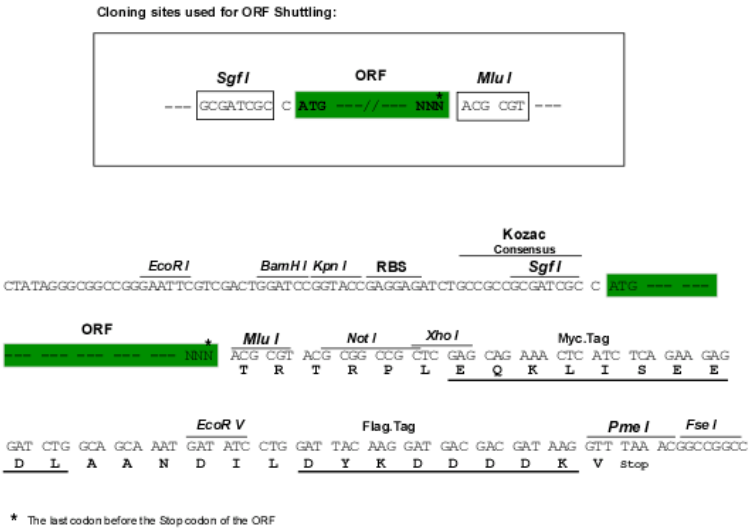
>RC237201 representing NM_001289025
Red=Cloning site Green=Tags(s)

MSPHPTALLGLVLCLAQTIHTQEDLPRPSISAEPGTVIPLGSHVTFVCRGPVGVQTFRLERDSRSTYNDT
EDVSQASPSESEARFRIDSVREGNAGLYRCIYYKPPKWSEQSDYLELLVKESSGGPDSPDTEPGSSAGPT
QRPSDNSHNEHAPASQGLKAEHLYILIGVSVVFLFCLLLLVLFCLHRQNQIKQGPPRSKDEEQKPQQRPD
LAVDVLERTADKATVNGLPEKDRETDTSALAAGSSQEVTYAQLDHWALTQRTARAVSPQSTKPMAESITY
AAVARH

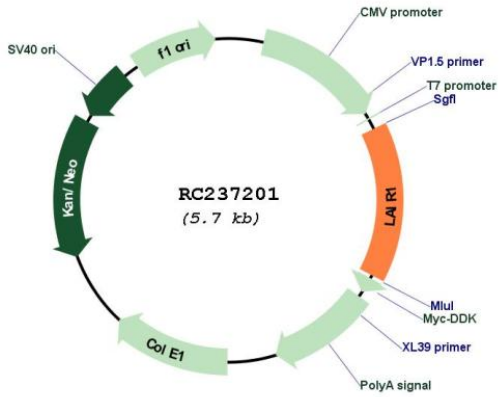
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289025

ORF Size: 858 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:	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_001289025.3
RefSeq Size:	2815 bp
RefSeq ORF:	861 bp
Locus ID:	3903
UniProt ID:	Q6GTX8
Cytogenetics:	19q13.42
Protein Families:	Transmembrane
MW:	31.8 kDa
Gene Summary:	The protein encoded by this gene is an inhibitory receptor found on peripheral mononuclear cells, including natural killer cells, T cells, and B cells. Inhibitory receptors regulate the immune response to prevent lysis of cells recognized as self. The gene is a member of both the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family. The gene maps to a region of 19q13.4 called the leukocyte receptor cluster, which contains at least 29 genes encoding leukocyte-expressed receptors of the immunoglobulin superfamily. The encoded protein has been identified as an anchor for tyrosine phosphatase SHP-1, and may induce cell death in myeloid leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]