

# **Product datasheet for RC237055**

## LAIR1 (NM\_001289023) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: LAIR1 (NM\_001289023) 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 >RC237055 representing NM\_001289023
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

ATGTCTCCCCACCCCACCGCCCTCCTGGGCCTAGTGCTCTGCCTGGCCCAGACCATCCACACGCAGGAGG
ATCTGCCCAGACCCTCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGGAGCCATGTGACTTTCGT
GTGCCGGGGCCCGGTTGGGGTTCAAACATTCCGCCTGGAGAGGGACAGTAGATCCACATACAATGATACT
GAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATTCCGCATTGACTCAGTAAGAGAAGGAA
ATGCCGGGCTTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTACCTGGAGCT
GCTGGTGAAAGGACCCACGCAGAGGCCGTCGGACAACAGTCACAATGAGCATGCACCTGCTTCCCAAGGC
CTGAAAGCTGAGCATCTGTATATTCTCATCGGGGTCTCAGTGGTCTTCCTCTTCTGTCTCCTCCTCGG
TCCTCTTCTGCCTCCATCGCCAGAATCAGATAAAGCAGGGGCCCCCCAGAAGCAAGGACGAGGAGCAGAA
GCCACAGCAGAGGCCTGACCTGGCTGTTGATGTTCTAGAGAGGACAAGGCCACAGTCAATGGA
CTTCCTGAGAAGGACAGAGAGAGAGACGACACCTCGGCCCTGGCTGCAGGGAGTTCCCAGGAGGTGACGTATG
CTCAGCTGGACCACTGGGCCCTCACACAGAGGACAGCCCGGGCTGTTCCCCACAGTCCACAAAGCCCAT
GGCCGAGTCCATCACGTATGCAGCCGTTGCCAGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237055 representing NM\_001289023

Red=Cloning site Green=Tags(s)

MSPHPTALLGLVLCLAQTIHTQEDLPRPSISAEPGTVIPLGSHVTFVCRGPVGVQTFRLERDSRSTYNDT EDVSQASPSESEARFRIDSVREGNAGLYRCIYYKPPKWSEQSDYLELLVKGPTQRPSDNSHNEHAPASQG LKAEHLYILIGVSVVFLFCLLLLVLFCLHRQNQIKQGPPRSKDEEQKPQQRPDLAVDVLERTADKATVNG LPEKDRETDTSALAAGSSQEVTYAQLDHWALTQRTARAVSPQSTKPMAESITYAAVARH

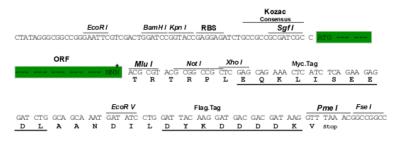
#### TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

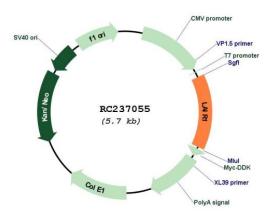
**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_001289023

ORF Size: 807 bp



### LAIR1 (NM\_001289023) Human Tagged ORF Clone - RC237055

**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:** <u>NM 001289023.3</u>

RefSeq Size:2764 bpRefSeq ORF:810 bpLocus ID:3903

UniProt ID: Q6GTX8

Cytogenetics: 19q13.42

**Protein Families:** Transmembrane

MW: 30.2 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]