

## Product datasheet for RC216949

### LAIR1 (NM\_021706) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAIR1 (NM_021706) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAIR1
Synonyms:	CD305; LAIR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216949 representing NM_021706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCCCCACCCACCGCCCTCCTGGGCCTAGTGCTCTGCCTGGCCAGACCATCCACACGCAGGAGG  
AAGATCTGCCAGACCCTCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGGAGCCATGTGACTTT  
CGTGTGCCGGGGCCGGTTGGGGTTCAAACATTCGCCTGGAGAGGGAGAGTAGATCCACATAACAATGAT  
ACTGAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATTCCGCATTGACTCAGTAAGTGAAG  
GAAATGCCGGGCCTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTACCTGGA  
GCTGCTGGTAAAAGGACCCAGCAGAGGCCGTCGACAACAGTCACAATGAGCATGCACCTGCTTCCCAA  
GGCCTGAAAGCTGAGCATCTGTATATTCTCATCGGGTCTCAGTGGTCTTCTCTTCTGTCTCCTCTCC  
TGGTCTCTTCTGCCTCCATCGCCAGAATCAGATAAAGCAGGGGCCCCCAAGCAAGGACGAGGAGCA  
GAAGCCACAGCAGAGGCCTGACCTGGCTGTTGATGTTCTAGAGAGGACAGCAGACAAGGCCACAGTCAAT  
GGACTTCTGAGAAGGACAGAGAGACGGACACCTCGGCCCTGGCTGCAGGGAGTCCCAGGAGGTGACGT  
ATGCTCAGCTGGACCACTGGGCCCTCACACAGAGGACAGCCGGGCTGTGTCCACAGTCCACAAAAGCC  
CATGGCCGAGTCCATCACGTATGCAGCCGTTGCCAGACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC216949 representing NM\_021706  
Red=Cloning site Green=Tags(s)

MSPHPTALLGLVLCLAQTIHTQEEDLPRPSISAEPGTVIPLGSHVTFVCRGPVGVQTFRLERESRSTYND  
 TEDVVSQASPSESEARFRIDSVSEGNAGPYRCIYKPPKWSEQSDYLELLVKGPTQRPSDNSHNEHAPASQ  
 GLKAEHLIYILIGVSVVFLFCLLLLVLFLHRQNQIKQGPPrSKDEEQKPPQRPDLAVDVLERTADKATVN  
 GLPEKDRETDTSALAAGSSQEVTYAQLDHWALTQRTARAVSPQSTKPMAESITYAAVARH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8048\\_d05.zip](https://cdn.origene.com/chromatograms/mk8048_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021706

**ORF Size:** 810 bp

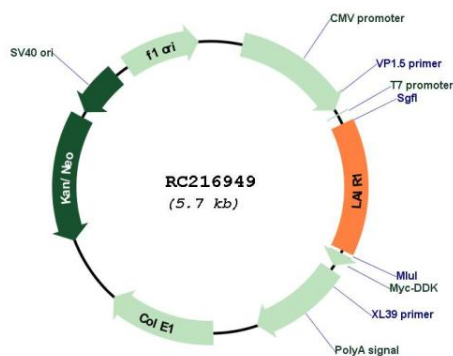
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

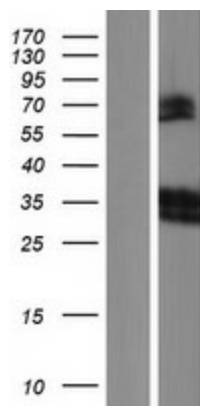
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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_021706.3</a>
<b>RefSeq Size:</b>	1613 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	3903
<b>UniProt ID:</b>	<a href="#">Q6GTX8</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	29.7 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC216949



Western blot validation of overexpression lysate (Cat# [LY411939]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216949 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).