

Product datasheet for **RG206439**

LAIR1 (NM_002287) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LAIR1 (NM_002287) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LAIR1
Synonyms: CD305; LAIR-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206439 representing NM_002287
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCCCCACCCACCGCCCTCTGGGCTAGTGCTCTGCCTGGCCAGACCATCCACACGCAGGAGG
AAGATCTGCCAGACCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGAGCCATGTGACTTT
CGTGTCCGGGGCCCGTTGGGGTTCAAACATTCGCCTGGAGAGGGAGAGTAGATCCACATACAATGAT
ACTGAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATTCCGCATTGACTCAGTAAGTGAAG
GAAATGCCGGCCTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTACCTGGA
GCTGTGGTAAAAGAAACCTCTGGAGGCCCGGACTCCCCGGACACAGAGCCCGGCTCCTCAGCTGGACCC
ACGCAGAGGCCGTGGACAACAGTCACAATGAGCATGCACCTGCTTCCCAAGGCCTGAAAGCTGAGCATC
TGTATATTCTCATCGGGTCTCAGTGGTCTTCTCTTCTGCTCCTCCTCTGGTCTTCTTGCCTCCA
TCGCCAGAATCAGATAAAGCAGGGGCCCCCAAGCAAGGACGAGGAGCAGAAGCCACAGCAGAGGGCT
GACCTGGCTGTTGATGTTCTAGAGAGGACAGCAGACAAGGCCACAGTCAATGGACTTCTGAGAAGGACA
GAGAGACGGACACCTCGGCCCTGGCTGCAGGGAGTCCCAGGAGGTGACGTATGCTCAGCTGGACCACTG
GGCCCTCACACAGAGGACAGCCCGGCTGTGTCCCACAGTCCACAAAGCCCATGGCCGAGTCCATCAGC
TATGCAGCCGTTGCCAGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206439 representing NM_002287
 Red=Cloning site Green=Tags(s)

MSPHPTALLGLVLCLAQTIHTQEEDLPRPSISAEPGTVIPLGSHVTFVCRGPVGVQTFRLERESRSTYND
 TEDVVSQASPSESEARFRIDSVSEGNAGPYRCIYKPPKWSEQSDYLELLVKETSGGPDSPDTEPGSSAGP
 TQRPSDNSHNEHAPASQGLKAEHLIYLIGVSVVFLFLLLLLVLFLHRQNQIKQGPFRSKDEEQKPQQR
 DLAVDVLERTADKATVNGLEPKDRETDTSALAAGSSQEVTYAQLDHWALTQRTARAVSPQSTKPMAESIT
 YAAVARH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002287

ORF Size: 861 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_002287.4](#)

RefSeq Size: 2816 bp

RefSeq ORF: 864 bp

Locus ID: 3903

UniProt ID: [Q6GTX8](#)

Cytogenetics: 19q13.42

Domains: IG

Protein Families: Transmembrane

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]

Product images:



Circular map for RG206439