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Product datasheet for RG237055

LAIR1 (NM_001289023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAIR1 (NM_001289023) 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:

>RG237055 representing NM_001289023.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTCCCCACCCCACCGCCCTCCTGGGCCTAGTGCTCTGCCTGGCCCAGACCATCCACACGCAGGAG
GATCTGCCCAGACCCTCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGGAGCCATGTGACTTTC
GTGTGCCGGGGCCCGGTTGGGGTTCAAACATTCCGCCTGGAGAGGGACAGTAGATCCACATACAATGAT
ACTGAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATTCCGCATTGACTCAGTAAGAGAA
GGAAATGCCGGGCTTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTACCTG
GAGCTGCTGGTGAAAGGACCCACGCAGAGGCCGTCGGACAACAGTCACAATGAGCATGCACCTGCTTCC
CAAGGCCTGAAAGCTGAGCATCTGTATATTCTCATCGGGGTCTCAGTGGTCTTCCTCTTCTGTCTCCTC
CTCCTGGTCCTCTTCTGCCTCCATCGCCAGAATCAGATAAAGCAGGGGCCCCCCAGAAGCAAGGACGAG
GAGCAGAAGCCACAGCAGAGGCCTGACCTGGCTGTTGATGTTCTAGAGAGGACAGCAGACAAGGCCACA
GTCAATGGACTTCCTGAGAAGGACAGAGAGACGGACACCTCGGCCCTGGCTGCAGGGAGTTCCCAGGAG
GTGACGTATGCTCAGCTGGACCACTGGGCCCTCACACAGAGGACAGCCCGGGCTGTGTCCCCACAGTCC
ACAAAGCCCATGGCCGAGTCCATCACGTATGCAGCCGTTGCCAGACAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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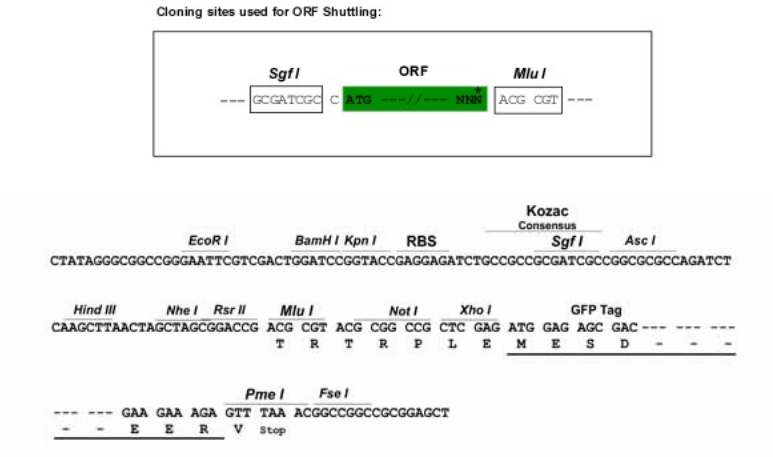
Protein Sequence:

>Peptide sequence encoded by RG237055
Blue=ORF Red=Cloning site Green=Tag(s)

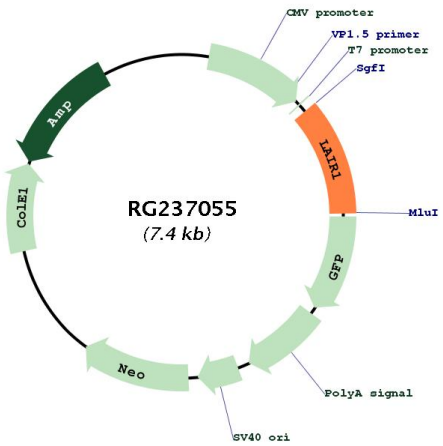
MSPHPTALLGLVLCLAQTIHTQEDLPRPSISAEPGTVIPLGSHVTFVCRGPVGVQTFRLERDSRSTYND
TEDVSQASPSESEARFRIDSVREGNAGLYRCIYYKPPKWSEQSDYLELLVKGPTQRPSDNSHNEHAPAS
QGLKAEHLYILIGVSVVFLFCLLLLVLFCLHRQNQIKQGPPRSKDEEQKPQQRPDLAVDVLERTADKAT
VNGLPEKDRETDTSALAAGSSQEVTYAQLDHWALTQRTARAVSPQSTKPMAESITYAAVARH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289023

ORF Size:	807 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).
RefSeq:	NM_001289023.3
RefSeq Size:	2764 bp
RefSeq ORF:	810 bp
Locus 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]