

## Product datasheet for SC312732

### LAIR1 (NM\_021706) Human Untagged Clone

#### Product data:

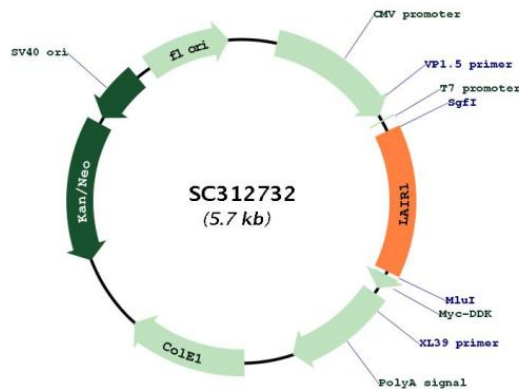
Product Type:	Expression Plasmids
Product Name:	LAIR1 (NM_021706) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAIR1
Synonyms:	CD305; LAIR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312732 representing NM_021706. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTCCCCACCCACCGCCCTCTGGGCCTAGTGCTCTGCCTGGCCAGACCATCCACACGCAGGAG
GAAGATCTGCCAGACCCTCCATCTCGGCTGAGCCAGGCACCGTGATCCCCCTGGGGAGCCATGTGACT
TTCGTGTCCGGGGCCCGGTTGGGGTTCAAACATTCGCTGGAGAGGGACAGTAGATCCACATACAAT
GATACTGAAGATGTGTCTCAAGCTAGTCCATCTGAGTCAGAGGCCAGATCCGCATTGACTCAGTAAGA
GAAGGAAATGCCGGGCTTTATCGCTGCATCTATTATAAGCCCCCTAAATGGTCTGAGCAGAGTGACTAC
CTGGAGCTGCTGGTGAAGGACCCAGCAGAGGCCGTCGGACAACAGTCACAATGAGCATGCACCTGCT
TCCCAAGGCCTGAAAGCTGAGCATCTGTATATTCTCATCGGGGTCTCAGTGGTCTTCCTCTTCTGTCTC
CTCCTCTGGTCTCTTCTGCCTCCATCGCCAGAATCAGATAAAGCAGGGGCCCCCAGAAGCAAGGAC
GAGGAGCAGAAGCCACAGCAGAGGCCTGACCTGGCTGTTGATGTTCTAGAGAGGACAGCAGACAAGGCC
ACAGTCAATGGACTTCTGAGAAGGACAGAGAGACGGACACCTCGGCCCTGGCTGCAGGGAGTCCCAG
GAGGTGACGTATGCTCAGCTGGACCACTGGGCCCTCACACAGAGGACAGCCCGGGCTGTGTCCACAG
TCCACAAAGCCCATGGCCGAGTCCATCACGTATGCAGCCGTTGCCAGACACTGA
ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_021706

**Insert Size:** 813 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_021706.4](#)

**RefSeq Size:** 2767 bp

RefSeq ORF: 813 bp

Locus ID: 3903

UniProt ID: [Q6GTX8](#)

Cytogenetics: 19q13.42

Protein Families: Transmembrane

MW: 29.9 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]

Transcript Variant: This variant (b) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (b) is shorter, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.