

Product datasheet for MR213437

Lrif1 (NM_001039478) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lrif1 (NM_001039478) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lrif1
Synonyms: 2010012G17Rik; 4933421E11Rik; AI450568
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR213437 representing NM_001039478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCGGGACCCGCGCAAGGAGCAGGGCAAACAAGGCAAAGCCGACGCAGTATGAGATGGCATCAA
TAGTAAAAAGGAAATTCAGAAAAAGGAAATAACAAGAAATATTCTCAAGGAAGCCATACTAATATTAA
GGCATCATGTCTGAAGAATGATGCTGAATTTAAAAAGCTATTTGGTCTCACTAAAGATTTGAGAGTATGT
CTTACTCGAATTCCTGACCATCTGAGCTCTGGAAAAAGTTTTAATTCCTTAAACAGTTTGATGAAAAGTA
GTTCTTACAAAGATGCAAACATTGTGGTGAAGAAAGAAGAAAAAACAGAGTTTCTCTAAGAAAAGAAA
AGCGGAAACCATGAAGATGGGTAAACAAAAAAGATAAAAATTGAGAATGCTGATGACACGGTCATGAGC
ATCATGAATGAACTGATGTTGCTAGTTCCCAACCTCTCAGTAGTATTTACCAACATCAGACATATCAC
AACATAACATTGTCACAAGCCATAGTACAACAGGGAAGACAAGAGAAGTGGCAGAACACTGTTCTCA
TGAGAAGCAGGAAAAAGGCACATTAAGTTCAAGCACATCTTTTGAACAAAGTACTTTTTTAAATAAAAAAC
TTTATGGAAGATATTTTCCAGTGACACCAGAACTAGAAGAAACCATCAGAGATGAAAAATAAGAA
GACTTAAGCAAATTTTAAGAGAAAAAGAAGCAGCTCTGAAGAATTGCGTAAGAAGATGTACAAAAACA
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR213437 representing NM_001039478
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MAGGTRARSRANKAKPTQYEMASIVKKEIQEKGNKKYSQGSHTNIKASCLKNDAEFKKLFGLTKDLRVC
 LTRIPDHLSSGKSFNSFNLSMKSSSYKDANIVVKKEEKQSFSKRKAETMKMGNTKKIKIENADDTVMS
 IMNGTDVASSQPLSSILPTSDISQHNIVTSHSTTREDKRTEAEHCSHEKQEKGLSSSTSFEQSTFLNKN
 FMEDIFPVTPPELEETIRDEKIRRLKQILREKEAALEELRKKMYQKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001039478

ORF Size: 771 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_001039478.1](#), [NP_001034567.1](#)

RefSeq Size: 1612 bp

RefSeq ORF: 774 bp

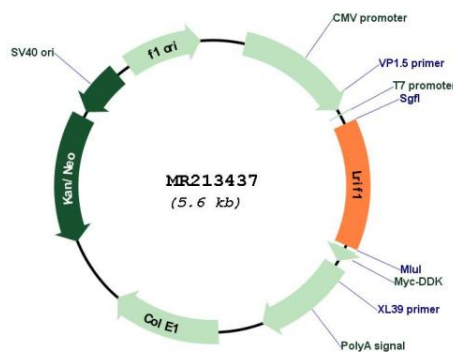
Locus ID: 321000

Cytogenetics: 3 F2.3

MW: 29.7 kDa

Gene Summary: Together with SMCHD1, involved in chromosome X inactivation in females by promoting the compaction of heterochromatin. Also able to repress the ligand-induced transcriptional activity of retinoic acid receptor alpha (RARA), possibly through direct recruitment of histone deacetylases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR213437