

Product datasheet for **RC213259**

C1orf103 (LRIF1) (NM_018372) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf103 (LRIF1) (NM_018372) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf103
Synonyms:	C1orf103; HBiX1; RIF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213259 representing NM_018372
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAAATAACCTACGGAGGGTCTTCCTGAAACCCGAGAGAAAATTCAGGCAACGCCTCGCGTTGTG
 TTTCAGGCTGCATGTACCAAGTAGTTCAGACGATTGGCTCGGATGGAAAAATCTTCTGCAATTACTTCC
 AATTCCTAAGTCTTCTGGAAATCTTATACCACTAGTTCATCTTCAGTCATGTCTGATGCTTTGAAAGGG
 AATACAGGAAAACCAAGTCAAGTACTTTTCAGACTCAGATTTCCAGCTCTCCACAAGTGCATCAGTTC
 AATTGCCATTTTTCAGCCAGCCAGTCTTCAAATTTTTCTTACAAGAACAGTAGATACATCAGAAAA
 AGGTAGAGTACTTCTGTGGAACTGGAAATTTTTCTTCATCAGTTTCTAAAGTTCAGAGTCATGGTGTG
 AAAATTGATGGACTCACCATGCAACATTTGCTGTTCCCTCAACACAAAAAGACTCATCTTTATTG
 TAGTTAATACCCAGAGTCTTCCAGTGACTGTGAAGTCTCCAGTTTGCCTTCTGGGCATCATTTACAGAT
 TCCAGCCATGCTGAAGTAAAATCTGTACCAGCGTCATCATTGCCTCCTCAGTGCAGAAAAGATACTT
 GCAACTGCCACCACAGTACCTCAGGAATGGTTGAGGCCTCCCAAATGCCAACCGTTATTTATGTATCTC
 CTGTAATAACAGTAAAAATGTAGTTACCAAGAACTTTCAAAACATTTACCCAAAACCTGTTACAGAAAT
 AGCAAAGCCAGTAATACTAAATACCACACAAAATCCAAAGAATGTTGCTACAGAGACACAATTGAAAGGT
 GGTACAGATTCTCAAGCTGCTCCAGTGAATGGATTTTCCAAGATAATCTACAGCCTTTTACGCCATCTC
 TTGTTCTGTAAAGTCTTCAAATAATGTGGCTTCAAAGATTTTAAAACTTTTGTAGATAGGAAAAATTT
 GGGAGATAACTATAAATAGCCACATTGAGTACCATCGATCCTAGTGGGACGCGATCCAAAAATATG
 CCTATTAAGATAATGCTTTGGTTATGTTAATGGGAAAGTCTATCTGTTGGCTAAAAAGGGGACAGATG
 TTCTGCCATCACAATTTGACCAACAGAATCTGTTTCTCCTGATACTCCAGTAAGAAAAGACACGTTACA
 GACAGTGAGTTCAAGTCCAGTACAGAAAATATCCAGAGAGGTTGTAATAATTGTTTTGGCTAAAAAGTAAA
 TCTTCCAGATGGAGACAAAATCACTTTCCAATACCCAGCTTGCTTCCATGGCCAATCTAAGGGCAGAGA
 AGAATAAAGTGGAGAAACCATCTCCTTCTACCACAAAATCCACATATGAACCAATCCAGTAACTACTTAAA
 ACAGAGTAAGACTTTTATTCAAAATCCAATCTTCCAGTTGGATTTAGTACAGGACACAATGCCCCAGAG
 AAAGTAACAGCCGTCATTTATGCTAGAAAAGGAAGTGCCTCCAGAGCATAGAGAAAATAAGTTCCTCTG
 TTGATGCAACAACGTACTTCCACAACAGTGTGTTTTCCAGAGACCAAGAACCAAGATCCATAATGAGAT
 GGCATCAACATCAGATAAAGGTGCCAAGGAAGAAATGACAAGAAAGATTCTCAAGGAAGAAGTAATAAG
 GCATTACATCTGAAGAGTGTGCTGAATTTAAAAAGATATTTGGCCTTACTAAGGATTTGAGAGTGTGCC
 TTAAGTCAATTCCTGACCATTTGACCTCTGGAGAAGGTTTCGATTCTTTAGCAGTGTGGTAAAGAGTGG
 TACTTACAAAAGAGACAGAGTTTATGGTGAAGGAAGGAGAGAGAAAAACAGCAGAATTTTGATAAGAAAAGA
 AAAGCAAAAATAAAGAAAGTGGATCACATAAAGAAGAGAAAAACAGAGAATGCTTATAACGCAATCA
 TAAATGGGGAAGCTAATGTCACCGGTTCCCAACTCCTAAGCAGTATTTTACCAACTTCAGATGTGTCACA
 ACATAACATTCTCAGGATCACAGCAAAACCAGACAAGAAAAGAGAACTGAGATGGAATACTATACCCAT
 GAGAAGCAAGAGAAAAGGCACTTTGAATTCAAATGCAGCTTATGAACAAAGTCATTTCTTCAATAAAAAT
 ATACCGAAGATATTTTCCAGTGACACCACCGGAGTTAGAAGAAACCATTCGAGATGAAAAATAAGAAG
 ACTTAAGCAGGTGCTGAGAGAGAAAAGCAGCTCTTGAAGAAATGCGTAAGAAGATGCACCAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213259 representing NM_018372
 Red=Cloning site Green=Tags(s)

MSNNLRRVFLKPAEENSGNASRCVSGCMYQVVQTI GSDGKNLLQLLPIPKSSGNLIPLVQSSVMSDALKG
 NTGKPVQVTFQTQISSSSTSASVQLPIFQPASSSNYFLTRTVDTSEKGRVTSVGTGNFSSSVSKVQSHGV
 KIDGLTMQTFVAPPSTQKDSSFIVVNTQSLPVTVKSPVLP SGHHLQIPAHAEVKSVPASSLPSPVQQKIL
 ATATTSTSGMVEASQMP TVIYVSPVNTVKNVVTKNFQNIYPKPVTEIAKPVILNNTQIPKNVATETQLKG
 GQHSQAAPVKWIFQDNLQPF TPSLVVVKSSNNVASKILKTFVDRKNLGDNTINMPPLSTIDPSGTRSKNM
 PIKDNALVMFNGKVYLLAKKGTDVLP SQIDQQNSVSPDTPVRKDTLQTVSSSPVTEISREVVNIVLAKSK
 SSQMETKSLSNTQLASMANLRAEKNKVEKPSPTTNP HNMQSSNYLKQSKTLFTNPIFPVGFSTGHNAPR
 KVTAVIYARKGSVLQSI EKISSVDATTVTSQQCVFRDQEPKIHNE MASTSDKGAQGRNDKKDSQGRSNK
 ALHLKSDAEFKKIFGLTKDLRVCLTRIPDHLTSGEGFDSFSSLV KSGTYKETEFMVKEGERKQQNFDKKR
 KAKTNKKMDHIKKRKTENAYNAI INGEANVTGSQ LLSILPTSDVSQHNILTSHSKTRQEKRTEMEYTH
 EKQEKGTLNSNAAYEQSHFFNKNYTEDIFPVTPPELEETIRDEKIRRLKQVLRKEAAL EEMRKKMHQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018372

ORF Size: 2307 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_018372.4](#)

RefSeq Size: 3349 bp

RefSeq ORF: 2310 bp

Locus ID: 55791

UniProt ID: [Q5T3I3](#)

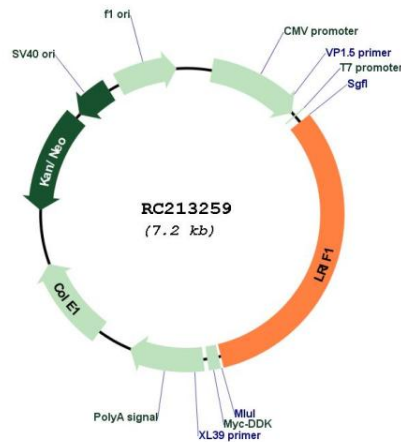
Cytogenetics: 1p13.3

Protein Families: Stem cell - Pluripotency

MW: 84.4 kDa

Gene Summary: Together with SMCHD1, involved in chromosome X inactivation in females by promoting the compaction of heterochromatin (PubMed:23542155). Also able to repress the ligand-induced transcriptional activity of retinoic acid receptor alpha (RARA), possibly through direct recruitment of histone deacetylases (PubMed:17455211).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213259