

## Product datasheet for **RG213259**

### **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:	TurboGFP
Symbol:	C1orf103
Synonyms:	C1orf103; HBiX1; RIF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG213259 representing NM\_018372  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAAATAACCTACGGAGGGTCTTCCTGAAACCCGAGAGAAAATTCAGGCAACGCCTCGCGTTGTG  
 TTTCAGGCTGCATGTACCAAGTAGTTCAGACGATTGGCTCGGATGGAAAAATCTTCTGCAATTACTTCC  
 AATTCCTAAGTCTTCTGGAAATCTTATACCACTAGTTCATCTTCAGTCATGTCTGATGCTTTGAAAGGG  
 AATACAGGAAAACCAGTTCAGTTACTTTTCAGACTCAGATTTCCAGCTCTCCACAAGTGCATCAGTTC  
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 AGCAAAGCCAGTAATACTAAATACCACACAAAATCCAAAGAAATGTTGCTACAGAGACACAATTGAAAGGT  
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 TTGTTCTGTAAAGTCTTCAAATAATGTGGCTTCAAAGATTTTAAAACTTTTGTAGATAGGAAAAATTT  
 GGGAGATAACTATAAATAGCCACCATTGAGTACCATCGATCCTAGTGGGACGCGATCCAAAAATATG  
 CCTATTAAGATAATGCTTTGGTTATGTTAATGGGAAAGTCTATCTGTTGGCTAAAAAGGGGACAGATG  
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 TCTTCCAGATGGAGACAAAATCACTTTCCAATACCCAGCTTGCTTCCATGGCCAATCTAAGGGCAGAGA  
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 TAAATGGGGAAGCTAATGTCACCGGTTCCCAACTCCTAAGCAGTATTTTACCAACTTCAGATGTGTCACA  
 ACATAACATTCTCAGGATCACAGCAAAACCAGACAAGAAAAGAGAACTGAGATGGAATACTATACCCAT  
 GAGAAGCAAGAGAAAAGGCACTTTGAATTCAAATGCAGCTTATGAACAAAGTCATTTCTTCAATAAAAAT  
 ATACCGAAGATATTTTCCAGTGACACCACCGGAGTTAGAAGAAACCATTCGAGATGAAAAATAAGAAG  
 ACTTAAGCAGGTGCTGAGAGAGAAAAGACAGCTCTTGAAGAAATGCGTAAGAAGATGCACCAAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG213259 representing NM\_018372  
Red=Cloning site Green=Tags(s)

```
MSNNLRRVFLKPAEENSGNASRCVSGCMYQVVQTI GSDGKNLLQLLPIPKSSGNLIPLVQSSVMSDALKG
NTGKPVQVTFQTQISSSSTSASVQLPIFQPASSSNYFLTRTVDTSEKGRVTSVGTGNFSSSVSKVQSHGV
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ATATTSTSGMVEASQMP TVIYVSPVNTVKNVVTKNFQNIYPKPVTEIAKPVILNTTQIPKNVATETQLKG
GQHSQAAPVKWIFQDNLQPF TPSLVPVKSNNVASKILKTFVDRKNLGDNTINMPPLSTIDPSGTRSKNM
PIKDNALVMFNGKVYLLAKKGTDLPSQIDQQNSVSPDTPVRKDTLQTVSSSPVTEISREVVNIVLAKSK
SSQMETKSLSNTQLASMANLRAEKNKVEKPSPTTNP HNMQSSNYLKQSKTLFTNP IFPVGFSTGHNAPR
KVTAVIYARKGSVLQSI EKISSVDATTVTSQQCVFRDQEPKIHNE MASTSDKGAQGRNDKKDSQGRSNK
ALHLKSDAEFKIFGLTKDLRVCLTRIPDHLTSGEGFDSFSSLV KSGTYKETEFMVKEGERKQQNFDKKR
KAKTNKKMDHIKKRKTENAYNAI INGEANVTGSQLLSSILPTSDVSQHNILTSHSKTRQEKRTEMEYYTH
EKQEKGTLNSNAAYEQSHFFNKNYTEDIFPVTPPELEETIRDEKIRRLKQVLRKEAAL EEMRKKMHQK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

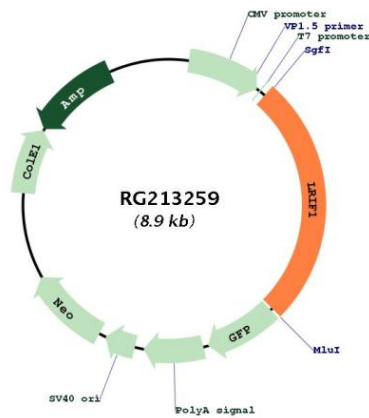
**UniProt ID:** [Q5T3I3](#)

**Cytogenetics:** 1p13.3

**Protein Families:** Stem cell - Pluripotency

**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 RG213259