

Product datasheet for **RG203729**

C1orf103 (LRIF1) (NM_001006945) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C1orf103 (LRIF1) (NM_001006945) 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)
ORF Nucleotide Sequence: >RG203729 representing NM_001006945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACCATTGAGTACCATCGATCCTAGTGGGACGCGATCCAAAAATATGCCTATTAAGATAATGCTT
 TGGTTATGTTTAAATGGGAAAGTCTATCTGTTGGCTAAAAAGGGGACAGATGTTCTGCCATCACAAATTGA
 CCAACAGAATTCTGTTTCTCCTGATACTCCAGTAAGAAAAGACACGTTACAGACAGTGAGTTCAAGTCCA
 GTCACAGAAATATCCAGAGAGGTTGTAATATTGTTTTGGCTAAAAGTAAATCTTCCAGATGGAGACAA
 AATCACTTTCCAATACCCAGCTTGCCTCCATGGCCAATCTAAGGGCAGAGAAGAATAAAGTGGAGAAACC
 ATCTCCTTCTACCACAAATCCACATATGAACCAATCCAGTAACACTTAAAACAGAGTAAGACTTTATTC
 ACAAATCCAATCTTTCCAGTTGGATTTAGTACAGGACACAATGCCCCAGAAAAGTAACAGCCGTCATTT
 ATGCTAGAAAAGGAAGTGTCTCCAGAGCATAGAGAAAATAAGTTCTCTGTTGATGCAACAACCTGTTAC
 TTCACAACAGTGTGTTTTAGAGACCAAGAACCAAGATCCATAATGAGATGGCATCAACATCAGATAAA
 GGTGCCAAGGAAGAAATGACAAGAAAGATTCTCAAGGAAGAAGTAATAAGGCATTACATCTGAAGAGTG
 ATGCTGAATTTAAAAGATATTTGGCCTACTAAGGATTTGAGAGTGTGCCTTACTCGAATTCCTGACCA
 TTTGACCTCTGGAGAAGGTTTCGATTCTTTAGCAGTTTGGTAAAGAGTGGTACTTACAAGAGACAGAG
 TTTATGGTGAAGGAAGGAGAGAGAAAACAGCAGAATTTTGATAAGAAAAGAAAAGCAAAAATAAAGA
 AGATGGATCACATAAAGAAGAGAAAAACAGAGAATGCTTATAACGCAATCATAAAATGGGGAAAGCTAATGT
 CACCGGTTCCCAACTCCTAAGCAGTATTTTACCAACTTCAGATGTGTACAACATAACATTCTCACGAGT
 CACAGCAAAACCAGACAAGAAAAGAGAAGTGGAACTACTATACCCATGAGAAGCAAGAGAAAAGGCA
 CTTTGAATTCAAATGCAGCTTATGAACAAAGTCATTTCTTCAATAAAAAATTATACCGAAGATATTTTCCC
 AGTGACACCACCGGAGTTAGAAGAAACCATTGAGATGAAAAAATAAGAAGACTTAAGCAGGTGCTGAGA
 GAGAAAGAAGCAGCTCTTGAAGAAATGCGTAAGAAGATGCACCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**



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Protein Sequence: >RG203729 representing NM_001006945
Red=Cloning site Green=Tags(s)

MPPLSTIDPSGTRSKNMPKIDNALVMFNGKVYLLAKKGTDLVPSQIDQQNSVSPDTPVRKDTLQTVSSSP
 VTEISREVVNIVLAKSKSSQMETKSLNNTQLASMANLRAEKNKVEKPSPTTNPMMNQSSNYLKQSKTLF
 TNPIFPVGFSTGHNAPRKVTAVIYARKGSVLQSIKISSVDATTVTSSQCVFRDQEPKIHNEMASTSDK
 GAQGRNDKKDSQGRSNKALHLKSDAEFKKIFGLTKDLRVCLTRIPDHLTSGEGFDSFSSLVKSPTYKETE
 FMVKEGERKQQNFDKRKAATNKKMDHIKKRKTENAYNAIINGEANVTGSLLSSILPSTSDVSQHNILTS
 HSKTRQEKRTMEYYTHEKQEKGLNSNAAEQSHFFNKNYTEDIFPVTPELEETIRDEKIRRLKQVLR
 EKEAALEEMRKKMHQK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001006945

ORF Size: 1308 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_001006945.1](#), [NP_001006946.1](#)

RefSeq Size: 1821 bp

RefSeq ORF: 702 bp

Locus ID: 55791

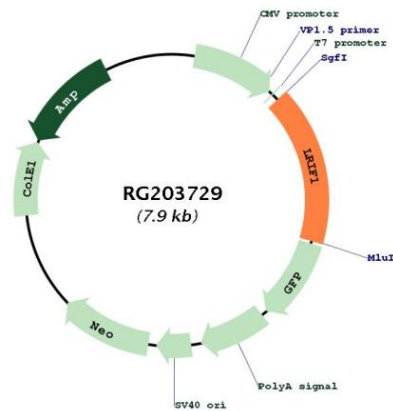
UniProt ID: [Q5T3I3](#)

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 RG203729