

Product datasheet for RC210243L3

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OriGene Technologies, Inc.

NANOG (NM_024865) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NANOG (NM_024865) Human Tagged Lenti ORF Clone

Tag:Myc-DDKSymbol:NANOG

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

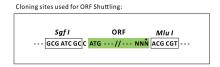
ORF Nucleotide

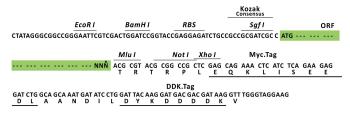
The ORF insert of this clone is exactly the same as(RC210243).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_024865

ORF Size: 915 bp



OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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.

12p13.31

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: <u>NM 024865.1</u>

 RefSeq Size:
 2114 bp

 RefSeq ORF:
 918 bp

 Locus ID:
 79923

 UniProt ID:
 Q9H9S0

Protein Families: Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem

cells, Stem cell - Pluripotency

MW: 34.4 kDa

Cytogenetics:

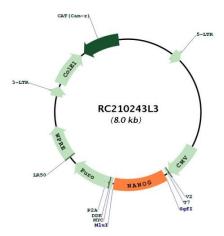
Gene Summary: The protein encoded by this gene is a DNA binding homeobox transcription factor involved in

embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Two transcript variants encoding different isoforms have been found for this gene.

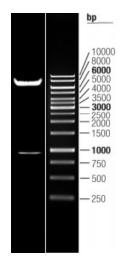
[provided by RefSeq, Sep 2015]



Product images:



Circular map for RC210243L3



Double digestion of RC210243L3 using Sgfl and Mlul $\,$