

Product datasheet for RC210945L3

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OriGene Technologies, Inc.

GATA4 (NM_002052) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GATA4 (NM_002052) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: GATA4

Synonyms: ASD2; TACHD; TOF; VSD1

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(RC210945).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002052

ORF Size: 1326 bp





GATA4 (NM_002052) Human Tagged Lenti ORF Clone - RC210945L3

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: <u>NM 002052.2</u>

 RefSeq Size:
 3419 bp

 RefSeq ORF:
 1329 bp

 Locus ID:
 2626

 UniProt ID:
 P43694

Cytogenetics: 8p23.1

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

Factors

MW: 44.6 kDa

Gene Summary: This gene encodes a member of the GATA family of zinc-finger transcription factors. Members

of this family recognize the GATA motif which is present in the promoters of many genes. This

protein is thought to regulate genes involved in embryogenesis and in myocardial

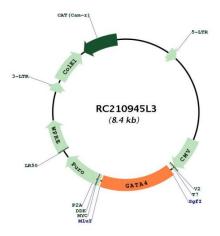
differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene

expression have been associated with several cancer types. Alternative splicing results in

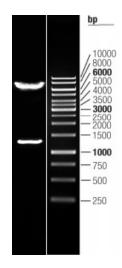
multiple transcript variants. [provided by RefSeq, Apr 2015]



Product images:



Circular map for RC210945L3



Double digestion of RC210945L3 using Sgfl and Mlul $\,$