

Product datasheet for MR227494L3

OriGene Technologies, Inc.

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Nkx2 (Nkx2-2) (NM_001077632) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nkx2 (Nkx2-2) (NM_001077632) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Nkx2-2

Synonyms: Nkx-2.2; Nkx2.2; tinman

Mammalian Cell Puromycin

Selection:

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

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

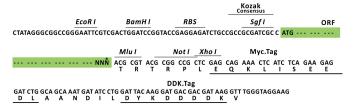
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR227494).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



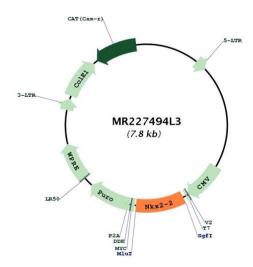


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001077632

ORF Size: 744 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: <u>NM 001077632.1, NP 001071100.1</u>

RefSeq Size: 1354 bp RefSeq ORF: 747 bp



Nkx2 (Nkx2-2) (NM_001077632) Mouse Tagged Lenti ORF Clone - MR227494L3

Locus ID: 18088

Cytogenetics: 2 72.63 cM

Gene Summary: Transcriptional activator involved in the development of insulin-producting beta cells in the

endocrine pancreas (PubMed:11076772). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal

guidance. Binds to elements within the NEUROD1 promoter (PubMed:19759004).

[UniProtKB/Swiss-Prot Function]