

Product datasheet for MR216282L4

Nek1 (NM_175089) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nek1 (NM_175089) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Nek1

Synonyms: D8Ertd790e; kat

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

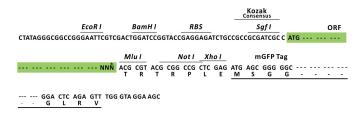
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR216282).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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



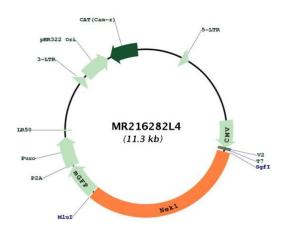
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Plasmid Map:



ACCN: NM_175089 **ORF Size:** 3609 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 175089.3, NP 780298.2</u>

RefSeq Size: 4264 bp RefSeq ORF: 3612 bp



Nek1 (NM_175089) Mouse Tagged Lenti ORF Clone - MR216282L4

 Locus ID:
 18004

 UniProt ID:
 P51954

 Cytogenetics:
 8 30.91 cM

Gene Summary: Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity

(PubMed:1382974). Involved in DNA damage checkpoint control and for proper DNA damage

repair (PubMed:18843199). In response to injury that includes DNA damage, NEK1

phosphorylates VDAC1 to limit mitochondrial cell death (By similarity). May be implicated in

the control of meiosis (PubMed:1382974). Involved in cilium assembly (By similarity).

[UniProtKB/Swiss-Prot Function]