

## Product datasheet for RC223269L3

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## WNK4 (NM\_032387) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** WNK4 (NM\_032387) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: WNK4

Synonyms: PHA2B; PRKWNK4

**Mammalian Cell** Puromycin

Selection:

Vector:

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

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

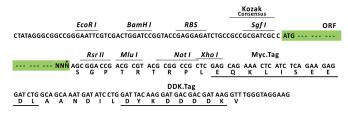
The ORF insert of this clone is exactly the same as(RC223269). **ORF Nucleotide** 

Sequence:

**Restriction Sites:** Sgfl-RsrII

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_032387

**ORF Size:** 3729 bp





## WNK4 (NM\_032387) Human Tagged Lenti ORF Clone - RC223269L3

**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 032387.3</u>

 RefSeq Size:
 4147 bp

 RefSeq ORF:
 3732 bp

 Locus ID:
 65266

 UniProt ID:
 Q96]92

 Cytogenetics:
 17q21.2

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 134.6 kDa

**Gene Summary:** This gene encodes a member of the WNK family of serine-threonine protein kinases. The

kinase is part of the tight junction complex in kidney cells, and regulates the balance between NaCl reabsorption and K(+) secretion. The kinase regulates the activities of several types of ion channels, cotransporters, and exchangers involved in electrolyte flux in epithelial cells. Mutations in this gene result in pseudohypoaldosteronism type IIB.[provided by RefSeq, Sep

2009]