

Product datasheet for RC230742

WNK1 (NM_014823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK1 (NM_014823) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNK1
Synonyms:	HSAN2; HSN2; KDP; p65; PPP1R167; PRKWINK1; PSK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230742 representing NM_014823 Red=Cloning site Blue=ORF Green=Tags(s)

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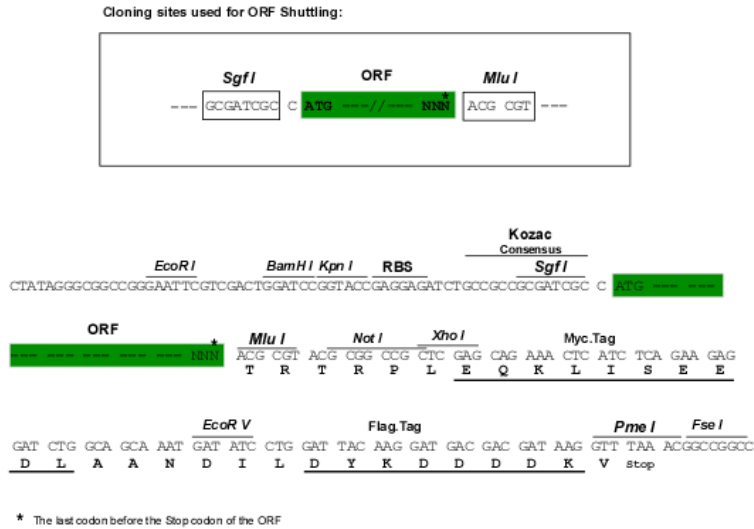
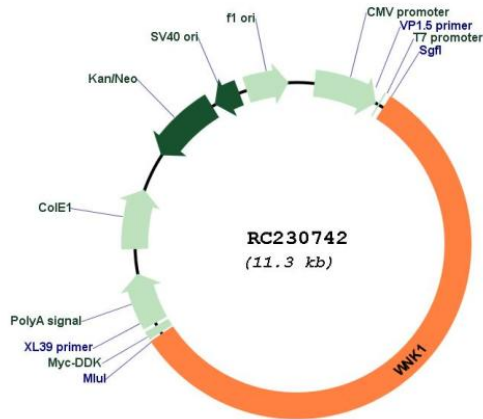
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Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_014823

ORF Size: 6402 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: [NM_014823.3](#)

RefSeq ORF: 6405 bp

Locus ID: 65125

UniProt ID: [Q9H4A3](#)

Cytogenetics: 12p13.33

Protein Families: Druggable Genome, Protein Kinase

MW: 226 kDa

Gene Summary: This gene encodes a member of the WNK subfamily of serine/threonine protein kinases. The encoded protein may be a key regulator of blood pressure by controlling the transport of sodium and chloride ions. Mutations in this gene have been associated with pseudohypoaldosteronism type II and hereditary sensory neuropathy type II. Alternatively spliced transcript variants encoding different isoforms have been described but the full-length nature of all of them has yet to be determined.[provided by RefSeq, May 2010]