

Product datasheet for **RG214240**

WNK1 (NM_213655) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK1 (NM_213655) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNK1
Synonyms:	HSAN2; HSN2; KDP; p65; PPP1R167; PRKWNK1; PSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214240 representing NM_213655 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGAATTACTTGTCTTATTCATGTTGATACAGCCTCAGTCCATGGCGCATCCGTGTGGGGGACCC
CAACATACCCAGAATCACAGATATTTTTCCCACTATTCATGAACGTCCAGTTTCTTTTTACCACCTCC
CACCTGCCACCAGAAAGTAGCCATTTCCAGCGGCGTAAGAGCACCTCCTTCCTGGAAGCCCAAACCTCAC
CACTTCCAACCCCTGCTGAGGACTGTTGGCAAAGTCTTCTCCACCTGGTGGCAGCCAACTAAGTGA
CACCAGAGGCCGTAGTTATGTTGGTACTACAGCCAGTAGAGTAAGTGGAGAGTCATGTGAGATACAGGT
CCATCCTATGTTGAACCATCTCAAGTTTACAGTACTATAGACCTGGACTAGTACTTCCAGAAGAAGCT
CACTATTTTATTCCTCAGGAAGCAGTGTATGTAGCTGGGTACATTACCAGGCCCGGGTGGCAGAACAGT
ATGAGGGCATTCCATACAACCTCATCAGTACTGTCAAGTCTATGAAACAGATACCTGAACAGAAGCCAGT
ACAAGGGGGCCCTACTTCAAGTTCTGTCTTTGAAATTTCCATCTGGACAGGCTTTCTCGGTAGGACACCTT
CAGAATCTAAGATTAGATTCTGGATTGGGTCCGGGATCTCCCCTCTCTAGTATTTCTGCACCTATCAGTA
CAGATGCTACACGTTTGAATTTCAACCTGTCTTTGTTCCCTCATTCTGCGCCTGTGTGTTAACTCATAA
CAATGAGAGCAGAAGCAACTGTGTATTTGAATTTTCATGTTACACACCAAGCTCCTCTTCAGGAGAAGGA
GGTGAATTTTACCTCAGCGTGTTTACCGAAATCGGCAGGTTGCAGTGGACTTGAATCAAGAAGAAGTGC
CTCCTCAATCAGTTGGATTACATGGCTACTTGCAGCCTGTGACTGAAGAAAAGCATAATTACCATGCCCC
AGAATTGACCGTTTCTGTGGTAGAGCCTATCGGACAGAAGTGGCCAATAGGAAGCCAGAATATTCAGT
GATTCCTCACAATCACTTCTTCAGACCCAGTGATTTTCAGTCACTCCCCCTACAGGGGGAGCAGCTG
CACTTTTGGCTCTGACGTCTCAATGCCCTTTATCCATCTGCCTCAGACAGTGTACAAGAATCCCACT
TTTCTTCTGTTTCCCAAGGAACCACATCTCAGCAGGTCTTAAGTGCCTCATTTTCTTCAGGAGGATCT
GCACCTTATCCACAGGTTATAGGAAAACCTCCACAATTATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214240 representing NM_213655
Red=Cloning site Green=Tags(s)

MYELLVLFMLIQPQSMHPCGGTPTYPESQIFFPTIHERPVSFSPPTCPPKVAISQRRKSTSFLEAQTH
 HFQPLLRTVGQSLPPGGSPNTWTPEAVVMLGTTASRVTGESCEIQVHPMFEPSSQVYSDYRPLVPEEA
 HYFIPQEAVYVAGVHYQARVAEQYEGIPYNSVLSPPMKQIPEQKPVQGGPTSSSVFEFPSGQAFLVGHL
 QNLRDLSGLGPGSPLSSIAPISTDATRLKFKHPVFPVPHSAPAVLTHNNESRSNCVFEFHVHTPSSSSGEG
 GGILPQRVYRNRQVAVDLNQEELPPQSVGLHGYLEQPVTEEKHNYHAPELTVSVVEPIGQNWPIGSPEYSS
 DSSQITSSDPSDFQSPPTGGAAAPFGSDVSMPIHLPTVQLQESPLFFCFPQGTTSQQVLTASFSSGGG
 ALHPQVIGKLPQLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213655

ORF Size: 1302 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_213655.2](#)

RefSeq Size: 1305 bp

RefSeq ORF: 7905 bp

Locus ID: 65125

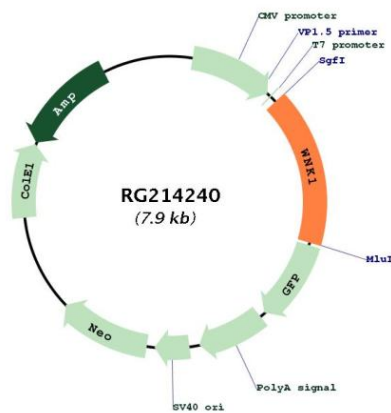
UniProt ID: [Q9H4A3](#)

Cytogenetics: 12p13.33

Protein Families: Druggable Genome, Protein Kinase

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]

Product images:



Circular map for RG214240