

Product datasheet for **SC122349**

WNK1 (BC021121) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK1 (BC021121) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNK1
Synonyms:	HSAN2; HSN2; KDP; p65; PPP1R167; PRKWNK1; PSK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for BC021121 edited
 GGTCTCCTCTCCTCTGCCCGGGGCGCCACCGCCGGGCGTCCGACCTGGTCCCCTGCT
 CGCGGTGCCGCGCCCTCTGGGCTAGCCCGCCAGCTCGGCGAGCGGCGCAGTGGGAG
 CCGCGTCCGCGCATCCGCTCGACTCGGTGCCGGCCCTGGCCCTCCCCTCATGACTGC
 GGGCCTCTGTGCCACCGCCCGCCGGCCGCTCGCCGAGGATGGATGCGGACCGT
 GCGGCGTAACCCCGTGGTCACTCCGAATCGCCCGCTTCGAGCCCTCCTCGTGAG
 CCGCAGCAGCTCGGTGCCAGCCCGCCGAGTGGGCCAGCGTCCGCTGTCCCTC
 GTTGGCGCTTGTGGGTGCTGAGTGAGGCTCGTCCGGGTCCGCGGAACCGCCCGCCG
 CGGTGCCCTGCAGACCTCTGCGCGGGCGCTCGGCCCTTACGCCCTTTTCGTTACGAA
 TCCGAGCCGCTCGCCTCTCTCCAGCGAACCGACCATGTCTGGCGGCGCCGAGAGAAGC
 AGAGCAGCACTCCCGTTCCTGTTCTCTCGCCGCGGCTCTGCCCAAGAATGGCT
 CCAGCTCCGATTCCTCGTGGGGAGAACTGGGAGCCGCGGCCGCGACGCTGTGACCG
 GCAGGACCGAGGAGTACAGGCGCCGCCACACTATGGACAAGGACAGCCGTGGGGCGG
 CCGCGACCACTACCACCTGAGCACCGCTTCTCCGCCGAGCGTCATCTGCGACTCCA
 ATGCCACTGCACTGGAGCTTCCCGCCTTCTCTTTCCCTGCCAGCCAGCATCCCCG
 CGGCTGTCCCGCAGAGTGTCCACCGAGCCCGCCGGAAGAGACCGTGACCGCCACCG
 CCACTTCCAGGTAGCCAGCAGCTCCAGCCGCTGCCGCCCTGGGAAACAGGCCGTCCG
 CGGGCCCTGCCCCCTCGACTGTCCCAGCAGTACCAGCAAAGACCGCCAGTGTCCCAGC
 CTAGCCTTGTGGGGAGCAAAGAGGAGCCGCCCGCGGAGAAAGTGGCAGCGGCGGCGCA
 GCGCAAAGGAGCCACAGGAGGAACGGAGCCAGCAGCAGGATGATATCGAAGAGCTGGAGA
 CCAAGGCCGTGGGAATGTCTAACGATGGCCGCTTCTCAAGTTTGACATCGAAATCGGCA
 GAGGCTCCTTTAAGACGGTCTACAAAGTCTGGACTGAAACCACCGTGAAGTGCCT
 GGTGTGAAGTGCAGGATCGAAAATTAACAAAGTCTGAGAGCGAGAGATTTAAAGAAGAAG
 CTGAAATGTTAAAGGTCTTCCAGCATCCCAATATTGTTAGATTTTATGATTCTGGGAAT
 CCACAGTAAAAGGAAAGAGTGCATTGTTTTGGTACTGAACTTATGACGCTGGAACAC
 TAAAACGTATCTGAAAAGTTTTAAAGTATGAAGATCAAAGTTCTAAGAAGCTGGTGCC
 GTCAGATCCTTAAAGGTCTTCCAGTTTCTCATACTCGAACTCCACCTATCATTACCGCG
 ATCTTAAATGTGACAACATCTTTATCACCGCCCTACTGGCTCAGTCAAGATTGGAGACC
 TCGGTCTGGCAACCCTGAAGCGGCTTCTTTGCAAGAGTGTGATAGGTATGTTTCAGG
 TGTACCTTGGAGCCTGACTGGCTTCTGACATTCCTTTATTTAGAACTCCTGGCTGTGC
 AGAGTTTTAAGTATATAAACCTTAAGAAATTCATAGCTTGAAGTCAAGGAGTATCCAT
 TGACTTATGAGATATAGGATTCTATATTTGTGCTTCTTGAATCATCTTAGAGACTA
 TTGGTAACATTACGTTACAAGAAATAAAGTGAAGTTTGTGATAAAAAAAAAAAAAAAAAA
 AAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC021121 unedited
 ACCATTTCGACNGGGTCTCCTTTTCTCTGCCCGGGGCGCCACCGCCGGGCGTCCG
 ACCTGGTCCCCTGCTCGCGGTGCCGCGCCCTCTGGGCTAGCCCGCCAGCTCGGCGAG
 CGGCGGAGTGGGAGCCGCTCCGCCGATCCGCTCGACTCGGTGCCGGCCCTGGCC
 TCCCTCATGACTGCGGCGCTCTGCTGCCACCGCCCGCCGGCCGCTCGCCGAGG
 ATGGATGCGGACCGTGGCGGCTAACCCCGTGGCTCAGTCCCGAATCGCCCGCTTCG
 AGCCCTCCTCGTGGCCGAGCAGCCTCGGTGCCAGCCCGCCGAGCTGGGCCAGCG
 GTCGCTGTCCCTCGTGGGCTTGTGGGTGCTGAGTGAGGCGTCCGCGGCGGCGC
 GAACCCCGCCGGCGGCTGCCCTGCAGACCTCTGCGCGGGCGGCTCGGCCCTTACGCC
 CTTTTCGTTCACGAATCCGAGCCGCTCGCCTCTCTCCAGCGAACCGACCATGTCTGGCG
 GCGCCGAGAGAAGCAGAGCAGCACTCCCGTTCCCTGTTCTCTCGCCCGGCTCCTG
 CCCCCAAGAATGGCTCCAGCTCCATTCTCCGTGGGGAGAACTGGGAGCCGGCGCCG
 CCGACGCTGTGACCGGGCAGACCGAGGAGTACAGGCGCCGCCGCACTATGGACAAGG
 ACAGCCGTGGGGCGGCGGACCACTACCACCTGAGCACCGCTTCTTCCGCCGAGCG
 TCATTTGCGACTCCAAGCACTGCACTGGAGCTTCCGGCTTCTTTTCTGCCCC
 AGCA

Restriction Sites:	Please inquire
ACCN:	BC021121
Insert Size:	1928 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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>BC021121.1</u>
RefSeq Size:	1928 bp
Locus ID:	65125
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]