

Product datasheet for **SC329380**

WNK1 (NM_014823) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK1 (NM_014823) 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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014823, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGGCGGCCCGCAGAGAAGCAGAGCAGCACTCCCAGTTCCTGTCTCTCGCCG
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 CCAGCTACCCATTTGGCGCTCAATGGAGTGGGACGGGTGGCCAGCACCACAGCCACTT
 GGCCAGTCCAACCTGTGGGAAGTGCCTCCTTGCAGAATTTCAACATCAGCAATTTGCAG
 AAATCCATCAGCAACCCCCAGGCTCCAACCTGCGGACCACTTAG

- Restriction Sites:** Please inquire
- ACCN:** NM_014823
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	NM_014823.2 , NP_055638.2
RefSeq Size:	9717 bp
RefSeq ORF:	6405 bp
Locus ID:	65125
UniProt ID:	Q9H4A3
Cytogenetics:	12p13.33
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses two alternative splice sites and lacks two exons in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>