

## Product datasheet for SC308700

### WNK1 (NM\_213655) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNK1 (NM_213655) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNK1
Synonyms:	HSAN2; HSN2; KDP; p65; PPP1R167; PRKWNK1; PSK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308700 representing NM_213655. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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**Restriction Sites:** SgfI-MluI  
**Plasmid Map:** □  
**ACCN:** NM\_213655  
**Insert Size:** 7905 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_213655.4</a>
<b>RefSeq Size:</b>	11208 bp
<b>RefSeq ORF:</b>	7905 bp
<b>Locus ID:</b>	65125
<b>UniProt ID:</b>	<a href="#">Q9H4A3</a>
<b>Cytogenetics:</b>	12p13.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	279.5 kDa
<b>Gene Summary:</b>	<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 (3) has multiple differences in the coding region but maintains the reading frame compared to variant 1. This variant represents the exon combination of the brain and spinal cord variant described in Figure 2F of PubMed ID 18521183. This variant encodes isoform 3, which is longer than 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. The combination of alternatively spliced exons within the coding region is inferred based on experimental evidence reported in Figures 2F and 3 from PubMed ID 18521183.</p>