

## Product datasheet for **RN200644**

### Wnk1 (NM\_053794) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wnk1 (NM_053794) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wnk1
Synonyms:	Hsn2; Prkwk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN200644 representing NM_053794 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACGGCACCGCAGAGAAGCAGAGCGGCACTCCTGGCTTCCTTCGCCTCCGGCTCCAGTCCCCA  
AGAATGGCTCAAGCTCCGATTCTCCGTGGGCGAGAACTGGGGCCCGGTCGCCGACTCCGAATTGG  
CAGGACAGAGGAATACCGCGCCGCCGGCACACTATGGACAAGGACAGTCGTGGGGCGGCCGCCACCACT  
ACCCCCACGGAGACCGATTTTTCCGCCGAAGCGTCATCTGCGACTCCAATGCCACGGCGTTGGAGCTGC  
CGGGCCTCCCTCTCTATCCCTCAACCTAGTGTACCCGCAAGTGGTGCCTCAGAGTGTCCACCCGAGCC  
TCACAGAGAGGAACTTTGACGGCCACCGTTGCTTCCCAGGTGTCTCAGCAACCCCTCGGCTGCTGCCTCC  
CCTGGGGAACAAGCCGTTGTAGGCTCGGCCACCGCAGCCGTCGCCAGCAGTACCAGCAAAGACCGCCCGG  
TGTCCCAGCCCAGCCTCGTGGGTAGCAAAGAGGAGCCGCCCGCTCCAGAAGTGAAGTGGCAGCGGTGG  
TGCCAGTGCCAAAGAGCCGAGGAGGAAAGGAACCAGCAACAGGATGATATCGAAGAGCTGGAGACCAAG  
GCAGTGGGAATGTCCAATGACGGTCGCTTTCTCAAATTTGACATCGAAATCGGCAGAGGCTCCTTTAAGA  
CGGTCTACAAAGGTCTGGACACCGAAACCACTGTGGAAGTCGCCCTGGTGTGAATTCAGGATCGAAAGT  
AACAAAATCTGAAAGGCAGAGATTCAAAGAAGAAGCTGAAATGCTAAAGGCTCTTCAACATCCTAACATT  
GTTTCGATTCTATGATTCCTGGGAATCCACAGTAAAGGGAATAATGCATTGTTTTAGTGACTGAACTAA  
TGACATCTGGAACACTTAAAACGTACTTAAAAGGTTTAAAGTGTGAAAATCAAAGTTTTAAGAAGCTG  
GTGTCCGCAAAATCCTTAAAGGACTTCAATTTCTCCATACACGAACTCCCCGATTATTCACCGGGATCTT  
AAATGTGACAACATCTTTATCACTGGTCTACCGGCTCAGTCAAGATCGGAGACCTTGGTCTGGCAACTC  
TAAAGCGGGCTTCTTTGCAAGAGTGTGATAGGTACCCAGAGTTTATGGCTCCTGAGATGTATGAGGA  
GAAGTACGATGAATCCGTTGATGTTTATGCTTTTGGGATGTGCATGCTTGAGATGGCTACGCTGAATAT  
CCATACTCAGAGTGCCAAAATGTGCTCAGATCTACCGTCGAGTGACCAGTGGAGTGAAGCCAGCCAGTT  
TTGACAAAAGTAGCAATTCCTGAAGTGAAGGAAATTATTGAAGGATGTATCCGACAAAACAAGATGAAAG  
ATATTCATCAAAGACCTTTTGAACCATGCCTTTTCCAGGAGGAAACAGGGGTACGGGTAGAATTAGCA  
GAAGAAGATGATGGAGAAAAGATAGCTATCAAATTATGGCTACGTATTGAAGATTAAGAATAAAGG



GAAAATACAAAGACAATGAAGCTATTGAGTTTTCTTTGACTTGGAGAGGGATGTACCAGAAGATGTTGC  
TCAAGAAATGGTCGAGTCTGGTTATGTCTGTGAAGGTGATCACAAGACCATGGCTAAAGCTATCAAAGAT  
AGGGTATCATTAAATTAAGAGAAAACGAGAGCAGCGCAGTTGGTTCGAGAAGAACAAGAAAAAGAAAAAC  
AAGAAGAGAGCAGTTTCAAACAGCAGAATGAACAACAAGCAAGTGTTCACAGGCAGGAATCCAGCCACT  
CTCTGTTGCTAGCACTGGCATACCCACTGCTCCACCACATCCGTTTCACTTCTACTCAAGTAGAGCCT  
GAAGAACCCGAGGCAGATCAGCATCAACAGCTGCAGTATCAGAACCTAGTATATCTGTGTTGTCTGATG  
GAACAGTTGACAGTGGTCAAGGATCATCTGTATTACAGAATCCAGAGTGAGCAGCCAACAGACTGTTTC  
CTATGGCTCCCAACATGAGCAGGCACATTCTATTGGCACAGCACCAGGACATACAGTTTCTAGTATCCAA  
GCACAATCTCAGCCCATGGGGTGTATCCACCCTCAAGTATGGCACAGGGGCAGAACCAGGGCCAGCCAT  
CAAGTAGTTTAGCAGGGTTCTATCTTCAACCCGTCACATCCTCAGCAGCAGGGAATACAGCCGAC  
TGTACCTCCTCAACAGGCAGTACAGTATCACTTCCACAGGCAGCGTCTCCAGTGAAGGCACTGTCCAG  
CCAGTGAGTCAGCCTCAAGTGTGAGTGGAAACACAGAGTGTACACAGGGAGTCTCTCAGGCTGCTCCTC  
CAGAACAACCTCAATAACACAGTCACAACCTACTCAACCTGTTCCATTGGTTTCTCTGTGGACAGTGC  
CCATTAGATGTTGCTTCTGGTATGAGTGTGGCAATGAGAATGCTCCTCATCCAGCGGGAGGCATGAA  
GGGAGGACGACAAAACGTCATTATCGAAAATCTGTAAGAAGTCGTTCTCGTCATGAAAAGACTTCTCGCC  
CGAAACTGAGGATTTTAAATGTTTCAAATAAAGGAGACCGAGTAGAATGTCAATTGGAGACTCATAA  
TCGGAAAATGGTTACATTTAAATTTGACCTAGATGGTGACAACCCCTGAAGAGATAGCAACAATTATGGTG  
AACAAATGACTTTATTCTAGCCATAGAGAGAGAGTCTTTTGTGGCTCAAGTGCGGGAAATTTGAAAAGG  
CTGATGAAATGTTAAGCGAGGATGTGAGTGTGGAGCCTGAGGGTGACCAGGGATTGGAGAGTCTACAAGG  
AAAGGATGACTATGGCTTTCCAGGTTCTCAGAAATTAAGAAGGAGAGTTCAAGCAACCAATTGCTGTATCT  
TCCATGCCACAACAAATAGGTGTTCCACCAGTCTTTAACACAAGTTGTTTATTCTGCTGGAAGACGAT  
TTATAGTGAGTCCAGTTCAGAAAAGTCGATTACGAGAATCAAAAATTTTACCAGTGAAAATACCAGATCC  
AGTTGCGGCCTTACATCTCAGGCCCTGGAATGAACCTTCTCACTCCGTTTCTCCTTAGTCTCCAG  
CAGGCTTTTTCTGAACTGAAACATGGTTCAGATGACTGAAGGACCAATACAGCACCTCAAATTTTAAATC  
ACCCAGGACCAACATTTTCTCCCTTTTACTAGCATTGCTGGTGTCAAACCTGTAGCAGCATCCACACC  
ATCAGTATCAGTCCCTATAACAAGCAGCCCTTAAATGACATTTCCACATCAGTGTGAGTGCAGTGCAGGGT  
GCACTGCCACTGACAAAGGCATTGGGGGAGTTACCACCAGCACAGGTGTGGTAGCTTCCAGTGGTCTCA  
CCACATTGTCTGTGTCTGAGACCAACACTTTCCAGTGCAGTTTCAAGTTCTACAGCGCTGCAGTTGT  
CACAGTGTCTACAACATCCCAACAGTTCAGGCTTCCACATCTGGGAGCATTGCTTCTAGTACAGGCAGT  
TTTCTTCTGGAACATTTTCCACAACACTACAGGTACCACAGTGTAGTGTAGTGTCCCAATGCTAAGC  
CTCCAAGTGTATTACTGCAACAGGTAGCAGGTAATACTGCTGGGTAGCCATAGTACATCAGTTTCTAC  
TACCCTCCATTCCCAGCCATGGCTTCCAGCCATCCCTTCCACTTGGTAGCAGCACATCTGCTCCTACA  
CTAGCTGAAACAGTGGTGGTTAGTGCACTACTAGACAAGGCATCTCAGAGTGTACAGCAGGATTGG  
GTTTGTCTTTTGGCACCCTCTTCTTCTCCTCTGGAACAGCAGTGTCTAGTTCTGTTTCTCAGCC  
TGGTATTGTGCATCCTTTGGTCACTCATCAGCTATAGCTTCTACACCTGTCTCCCAACACAGCAGTA  
CCTACTTCTACACCTTTATTACCCCAAGTACCTAATATCCACCCTTGGTACAACCTGTTGCTAATGTGC  
CTGCTGTACAGCAAACTCATTATAGTACAGCCTCAACCAGTCTACTTCCCAACAGCCTCACACACA  
CTGTCCGAAATGGATGCTGATACCCAGTCCAAAGCTCCTGGGATCGATGATATAAAGACTCTGGAGGAA  
AAGTGTAGATCGCTCTTTAGTGAGCATAGCTCATCTGGAACCTCAGCATGCTTCTGCTCCCTGGAGAC  
CCTTAGTAGTAGACTGTCACACCGGGCATCCCTACCCTGCTGTAGCACCAGTAAACTCATGACTTCT  
CACTACAAGCACTTGCTGCCACCAACCAATTTACCCTTAGGAACAGCTGGCATGCCAGTTATGCCAGTG  
GGCACACCTGGTCAAGTTTCTACCCAGGCACACATGCCTCAGCCCCAGCCAGCACCAGCAACAGGAGCAA  
AACCTGGAACAACCTCCCAAGCCATCTTTAACTAAGACTGTGGTGCCGCCAGTGGTACTGAGCTTTC  
GGCTGGTACTGTACCCTGTGAGCAGTGCACCTTTTCCCGACCGTCTTAATTCAGACCCAGCAACCC  
CTAGAAGATCTTGATGCTCAGTTGAGAAGAACAACCTTAGTCCAGAGACTATTCCAGTGACACCCGAGTTG  
GTCCTTTGTCTACGATGTCTTCAACGGCAGTTACAGAAGCAGGAAGTCAACCTCAGAAGGATGGCACAGA  
AGTTCATGTACAGCAAGTAGTCCAGGAGCTGGTGTGTTAAGATGGGGAGATTTCAAGTTTCAAGTTACA  
ATGGATGATGCCAGAAAGAGCGTAAAAATAGGTGAGAAGATACAAGTCGGTTCAATTTGAATCTAGTA  
CATCAGAGTCATCAGTTCTTCAAGTAGTAGTCCAGAGAGTACCCTGGTAAAGCCAGAGCCTAATGGAAT  
TACTGTTTCTGGCATCTCCTTAGATGTGCCAGACAGTACCATAGAACACCCGACCCAGAAAGCAAGTCA  
GAAACAGGACAGCCTACCAAGGTTGGACGTTTTCAAGTGACAACCTACAGCCAACAAGTGGGTGCTTTCT  
CTGTTTCAAGAACTGAGGACAAGGTCACAGAGCTAAAAAAGAGGGACCAGTGACCTCTCCTTTCAGAGA

TTCAGAACAACTGTTATTCCTGCTGCGATACCAAAGAAGGAGAAGCCTGAGCTGGCAGAACCTTCCCAT  
CTGAATGGGCCATCTTCAGACTTGGAGGCTGCCTTTCTAAGTAGGGTGGAGAGGATGGATCAGGTAGTC  
CTCACTCTCCCCCTCACCTGTGTTCAAAGAGCCTTCCCATCCAGACTCTAAGTCAAAGCCTTAGTAATTC  
ATTCAACTCCTTACATGAGTAGTGACAATGAGTCCGACATTGAAGATGAAGACTTAAGTTAGAAGT  
CGACGACTACGGGAAAAACATCTTAAAGAGATTCAGGACCTGCAGAGTCGCCAGAAGCATGAAATTGAAT  
CTTTGTATACCAAAGTGGCAAGGTTCCCCTGCTGTATTATCCCCCAGCTGCTCCTGTGTCAGGGAG  
AAGAAGGAGGCCCTACTAAAAGCAAAGGCAGCAAGTCCAGTCGCAGCAGCTCATTGGGCAACAAAAGCCCT  
CAGCTTTTCAGGTAACCTGTCTGGTCAGAGTGGAACCTTCAGTCTTAAACCCCAACAGACCCCTCCATCCCC  
CAGGCAATACCCAGAGACTGGACACAACCAGCTGTTACAGCCTCTTAAGCCATCTCCCTCCAGTGACAA  
CCTCTATTAGCCTTTACCAGTGATGGTGCCATTTAGTACCAAGCCTTTCTGCTCCAGGTCAAGGGACC  
AGCAGCACAAACACCGTTGGAGGAACAGTGAGTAGCCAGGCTGCCAGGCTCAGCCTCCTGCCATGACTT  
CCAGTAGGAAGGGCACATTCACAGATGACCTGCACAAGTTGGTAGACAAGTGGGCCCGAGATGCCATGAA  
TCTTTAGGCAGGAGAGGCAGCAAGGACACATGAATTATGAGGGCCCTGGAATGGCAAGGAAGTTCTCT  
GCTCCTGGCAGCTGTGATTTCCATGACCTCAAACATGGGTGGCTACCCCCATCTGTCAGCATCTG  
CTACCTCTTAGTCACTTCACCAAGTCCATGTGCCCCCACAGCAGTATGGTTTTCCAGCTGCCCCATT  
CGGCACTCAGTGGAGTGAACAGGTGGTCCAGCACAGCCACTTGGTCAGTTCCAACCTGTAGGAACC  
ACATCCTTGCAAATTTCAACATCAGCAATTTGAGAAGTCCATCAGCAACCCCCAGGTTCCAACCTAC  
GGACCACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_053794

**Insert Size:**

6381 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:**

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\\_053794.2](#), [NP\\_446246.2](#)**RefSeq Size:**

8973 bp

**RefSeq ORF:**

6381 bp

**Locus ID:**

116477

**UniProt ID:**[Q9JIH7](#)**Cytogenetics:**

4q42

**Gene Summary:**

catalyzes the phosphorylation of myelin basic protein in vitro; has autophosphorylation activity; may regulate the thiazide-sensitive Na-Cl cotransporter NCC [RGD, Feb 2006]  
Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame compared to variant 1. The resulting protein (isoform 3) 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.