

Product datasheet for MC229655

Wnk3 (NM_001271679) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wnk3 (NM_001271679) Mouse Untagged Clone
Tag: Tag Free
Symbol: Wnk3
Synonyms: Prkwnk3; Wnk3-ps
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229655 representing NM_001271679
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCACTGATTCTGGGGAGCCAGCTAGCACAGAAGATTCTGAGAAGCCTGATGGAGTTTCCTTTGAAA
 ACAGGGCTGCCCGGGCTGTTGCCCTCTGACTGTAGAAGCGAGAATAAAGGAAAAATACAGTACCTTTTC
 TGCTTCCGGGAAAACATCGAAAGAAAGAGTTTTTCCGAAAGAGTGTTGAGATGACAGAAGATGACAAA
 GTTGCCGAATCTTCCCGCAGAGATGAAAGAAAAGCTGCAACAAATATTTCAAGAGTAGATAAAGTTCCTA
 CAAATGTGCTAAGAGGTGGGCAAGAAGTTAAATATGAGCAATGTTCAAAGGCAACCTCAGAAATCCTCAA
 AGATTGCTTCAAGGAGAAAAGTAAAAGGAAATGGAAGAAGAAGCAGAAATGAAGGCTGTTGCAACTTCC
 CCTAGTGGCAGGTTCTGAAATTCGATATAGAGCTGGGAAGAGGAGCATTAAAACGGTATATAAAGGAT
 TGGACTGAGACATGGGTTGAAGTTGCTTGGTGTGAGCTACAGGACCGCAAATTAATAAGCTGAGCA
 GCAACGGTTCAAAGAAGAAGCAGAGATGTTGAAAGGCCTCCAGCATCCCAATATAGTTCGATTCTATGAT
 TCATGGGAGTCCACTTTGAAAGGAAAGAAATGTATTGTGTTAGTGACTGAACTAATGACATCAGGAACCT
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 AAAAGGATTGCAGTTCTTACACACAAGGACGCCTCTATTATTACCGGGATCTGAAATGTGACAACATT
 TTCATCACAGGACCCACTGGATCTGTGAAGATTGGTGTCTGGGACTTGAACCTTAATGCGCACATCGT
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 TGTAGATGTTTATGCTTTTGAATGTGTATGTTGGAAATGGCTACTTCGGAGTATCCATATTCTGAGTGC
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 CTTACTAAACCATGCATTCTTTGCTGAGGATACTGGACTGAGGGTGGAGTTAGCAGAGGAAGATGATTGC
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 GTCTGGATTCTTCCATGAAAGTATTCCAAAGCTGTTGCTAAGTCCATTAGGGACCGAGTGACATTGATT
 AAAAAGATAAGGGAAAAAAGCCTGCTGGATGCTTGGAGGAACGCAGGGATTCCCAGTCAAGTATGTGA



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GGAATGTA CTTCCTCAACAGCAGACTGCAACTTTACAACCTACTCCTGGTCCACACACTGCAGCTGAGTA
TGAAGAAACAGAAGTTGATCAACATGTTTCGACAGCAGTTTCTACAGGGCAAACCACAGCAGCAGTCTCC
TCTGTTAGGGGTGACACTTCATCTGAGCCAACAGCTGGACCAGTTCTACATTCAGATACTTCAAGTCATC
CCACTGTAGCCTATTCTTCAAACCAGACAACTAGCTCTCAGGAGCAGCCAAAGCTGACTCAGTCCCCAGT
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TGTCCTCCGACCAGAGAAGGGGACTAAATTCAGCTTACTGTCTTCAGGTCTCAGTCTCTGGAGACAACA
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GATGCTTCACTTCCAGGCGATCCAGAGGCTATCCTGCTGCTGTGCAAGCGATGGAACCATTCATCTGC
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ACAAAACAACAGTCCAGTCTAGTGAGCAAGCACTAACCTTTGCTGAAGCTGCAGTGTGCGAGTTGATCGA
AGTGGAGCCTGCCATGCCACTCATAAAGCTTCAGTTTCTTACGCAAGTTGCGAACTCTTTATGAAACC
TTTAAAGAAGATAAAGGAGATCCTGAACAAGGTGACATCGTATCTTACAGCACAGCTTGTGAGACCAGTG
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AAGCCTATGCTCAAACACAGAATTCAGTCTTCTATTCTCATCTTCCCAATGAGCAGTGAACAATGAATC
AGAAATTGAGGACGAGGACTTGAAGTGGAGCTTCAAAGATTACGAGAAAAACACATTCAAGAGTGGTTC
AGTCTTCAAACACAACAGAATAAAGAGCTACAAGAGCTCTATGAACGCTTCGAGCAACTAAAGACAACA
AAGCGCAATCTTCAAGGTTCTTTTGTACCTGCATCGCCACGCAAGGCAAGATCTTTCAAAGCAAACCT
TCGAAGCCGCCCCAGTCCATGACACATTCAGACAATCTCGTTGTAAGATGCACTGGGTGTGGAGAGT
AATACCGTGTATGCCAGCAATCTCCAGCCAGTAAGAAGGGGATGTTACAGATGATTTACACAAGCTGG
TGGATGACTGGACAAGAGAAACAGTAGGGCATTCTCCTAGTAAGCAAGTTTAAACCAACTCAAACAGAG
CCAACAAAAATCCGAAGCAGAAAACCTGGAACAAGTCATGTGAAAGTACTCCATCTACTATGGGATACAG
TCAAACCTGGATTTCTTCTCTCCCAAATTCGTGGAGCTGCCCAACTCTTGGCCACAAGGACTCCAC
TCCTTCAATTTATGGGCCATTAGCATCATATGGAATGCCTCACGTTTGTGAGTATAATGCTGTGGGTGC
CGCAGGTTATCCAGTACAGTGGGTAGGAATTTCTGGACCAGCACAAACAGTCTGTAGTGTCTTCTACCCAA
TCTGGGGGACTCTTCCAGCCCGGATGAATTTGCAGTCAATTTCCAGTCCACCAGTGCAGAATCCAGCTT
CAATCCCTCCTGGTCTAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001271679
Insert Size:	5133 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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>NM_001271679.1</u> , <u>NP_001258608.1</u>
RefSeq Size:	10259 bp
RefSeq ORF:	5133 bp
Locus ID:	279561
UniProt ID:	<u>Q80XP9</u>
Cytogenetics:	X F3
Gene Summary:	<p>Serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival and proliferation. Acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. Activates SLC12A1, SLC12A2, SLC12A3, SCNN1A, SCNN1B, SCNN1D and SGK1. Inhibits SLC12A4, SLC12A5, SLC12A6 and SLC12A7. Phosphorylates WNK4. Increases Ca(2+) influx mediated by TRPV5 and TRPV6 by enhancing their membrane expression level via a kinase-dependent pathway. Inhibits KCNJ1 by decreasing its expression at the cell membrane in a non-catalytic manner.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternated splice site in the coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>