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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC229655 representing NM_001271679
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACTGATTCTGGGGAGCCAGCTAGCACAGAAGATTCTGAGAAGCCTGATGGAGTTTCCTTTGAAA
ACAGGGCTGCCCGGGCTGTTGCCCCTCTGACTGTAGAAGCGAGAATAAAGGAAAAATACAGTACCTTTTC
TGCTTCCGGGGAAAACATCGAAAGAAAGAGGTTTTTCCGAAAGAGTGTTGAGATGACAGAAGATGACAAA
GTTGCCGAATCTTCCCGCAGAGATGAAAGAAAAGCTGCAACAAATATTTCAAGAGTAGATAAAGTTCCTA
CAAATGTGCTAAGAGGTGGGCAAGAAGTTAAATATGAGCAATGTTCAAAGGCAACCTCAGAATCCTCAAA
AGATTGCTTCAAGGAGAAAACTGAAAAGGAAATGGAAGAAGAAGCAGAAATGAAGGCTGTTGCAACTTCC
CCTAGTGGCAGGTTCCTGAAATTCGATATAGAGCTGGGAAGAGGAGCATTTAAAACGGTATATAAAGGAT
TGGACACTGAGACATGGGTTGAAGTTGCTTGGTGTGAGCTACAGGACCGCAAATTAACTAAAGCTGAGCA
GCAACGGTTCAAAGAAGAAGCAGAGATGTTGAAAGGCCTCCAGCATCCCAATATAGTTCGATTCTATGAT
TCATGGGAGTCCACTTTGAAAGGAAAGAAATGTATTGTGTTAGTGACTGAACTAATGACATCAGGAACCT
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TGTAGATGTTTATGCTTTTGGAATGTGTATGTTGGAAATGGCTACTTCGGAGTATCCATATTCTGAGTGC
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ACCCTGAAGTGAAAGAAATAATTGAAGGATGTATTAGACAAAACAAATCTGAAAGGTTATCTATCAAGGA
CTTACTAAACCATGCATTCTTTGCTGAGGATACTGGACTGAGGGTGGAGTTAGCAGAGGAAGATGATTGC
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ATGAAGCTATTGAATTCAGTTTCAACTTAGAAGCAGATACACCTGAGGAAGTAGCGTATGAAATGGTCAA
GTCTGGATTCTTCCATGAAAGTGATTCCAAAGCTGTTGCTAAGTCCATTAGGGACCGAGTGACATTGATT
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AAAAAGATAAGGGAAAAAAAGCCTGCTGGATGCTTGGAGGAACGCAGGGATTCCCAGTGCAAGTATGTGA
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CCACTGTAGCCTATTCTTCAAACCAGACAACTAGCTCTCAGGAGCAGCCAAAGCTGACTCAGTCCCCAGT
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ACAAAACAACAGTCCAGTCTAGTGAGCAAGCACTAACCTTTGCTGAAGCTGCAGTGTCGCAGTTGATCGA
AGTGGAGCCTGCCATGCCCACTCATAAAGCTTCAGTTTCTTCACGCAAGTTGCGAACTCTTTATGAAACC
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GCTGGTAATAGAAAGTCCGTGACAAAAACTCGTCCAGAGGGTGATCAGTATTTACCACTCCGTGAAGAGC
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TCAAACTGGATTTCTTCTCTCTCCCAAATTCGTGGAGCTGCCCCAACTTCCTTGCCACAAGGACTCCCAC
TCCCTTCATTTCATGGGCCATTAGCATCATATGGAATGCCTCACGTTTGTCAGTATAATGCTGTGGGTGC
CGCAGGTTATCCAGTACAGTGGGTAGGAATTTCTGGACCAGCACAACAGTCTGTAGTGCTTCCTACCCAA
TCTGGGGGACTCTTCCAGCCCGGGATGAATTTGCAGTCATTTCCAGCTCCACCAGTGCAGAATCCAGCTT

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CAATCCCTCCTGGTCCTAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
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:	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_001271679.1, NP_001258608.1
RefSeq Size:	10259 bp
RefSeq ORF:	5133 bp
Locus ID:	279561
UniProt ID:	Q80XP9
Cytogenetics:	X F3
Gene Summary:	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] 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.

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