**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SC107055

## WNK3 (NM_020922) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | WNK3 (NM_020922) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | WNK3 |
| **Synonyms:** | PRKWNK3 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_020922, the custom clone sequence may differ by one or more nucleotides |

ATGGCCACTGATTCAGGGGATCCAGCCAGCACAGAAGATTCTGAGAAACCTGATGGAATTTCATTTGAAA
ACAGAGTTCCCCAGGTCGCTGCAACTTTGACAGTAGAAGCTAGACTAAAGGAGAAAAACAGTACCTTCTC
TGCTTCTGGGGAAACTGTAGAAAGGAAGAGATTTTTCCGAAAGAGTGTTGAAATGACGGAAGATGACAAA
GTTGCCGAATCATCCCCCAAAGATGAGAGAATTAAGGCTGCAATGAATATTCCAAGAGTAGATAAGCTTC
CTTCAAATGTGTTGAGAGGTGGACAAGAAGTTAAATATGAACAGTGTTCAAAGTCAACCTCAGAAATCTC
AAAAGATTGTTTCAAGGAGAAAAATGAAAAGGAAATGGAAGAAGAAGCAGAAATGAAGGCTGTAGCTACT
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GACTGGACACTGAAACATGGGTTGAGGTTGCTTGGTGTGAGCTGCAGGACCGAAAGTTAACCAAAGCTGA
GCAGCAAAGATTCAAGGAAGAAGCAGAGATGTTGAAGGGTCTCCAGCACCCCAATATAGTTCGATTTTAT
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CCTTAAAGACGTACTTAAAACGATTTAAAGTCATGAAACCAAAGGTCTTAAGGAGCTGGTGCAGGCAAAT
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CATTTGCTAAGAGTGTCATTGGAACTCCTGAGTTTATGGCTCCAGAGATGTATGAAGAACACTATGATGA
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TGTCAGAATGCAGCTCAAATATACCGGAAAGTAACTAGTGGCATAAAACCAGCCAGCTTCAATAAAGTCA
CTGATCCTGAAGTCAAAGAAATCATTGAAGGATGTATTCGTCAAAACAAATCTGAAAGGTTGTCTATCAG
GGACCTATTAAACCATGCATTTTTTGCTGAGGATACAGGACTGAGGGTGGAGTTAGCAGAAGAAGATGAT
TGCTCAAATTCATCCCTTGCTTTAAGACTCTGGGTTGAAGACCCTAAAAAATTGAAAGGCAAACACAAAG
ACAATGAAGCTATTGAATTTAGTTTCAACTTAGAAACAGATACACCTGAGGAAGTAGCATATGAAATGGT
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TGGGGAATGTATTCCCTCAGCCCCAGAATACAACTTTACCCCTTGCTCCCGCTCAGCAAACTGGGGCTGA



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ATGTGAAGAAACTGAAGTTGATCAACATGTTAGACAACAGCTTCTACAAAGAAAACCACAGCAGCACTGC
TCCTCTGTTACAGGTGACAATTTGTCTGAGGCAGGAGCTGCATCAGTTATACATTCAGATACTTCAAGTC
AGCCCAGTGTAGCCTATTCCTCAAATCAAACGATGGGCTCTCAAATGGTTTCTAATATCCCGCAGGCTGA
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GCTCTTCAGGAAACCTGTAAAGAAAATAAAGGAGTTCCCAAACAAGGTGACAACTTCTTATCTTTCAGCG
CAGCTTGTGAGACTGATGTATCTTCAGTGACCCCAGAAAAGGAATTTGAAGAAACTTCAGCCACAGGAAG
TAGCATGCAGTCTGGATCTGAACTGTTGCTTAAAGAGAGAGAGATATTGACTGCTGGGAAACAGCCTAGC
TCTGATAGTGAATTTTCAGCCAGTCTTGCTGGCAGTGGAAAGTCAGTGGCAAAGACTGGTCCAGAGAGTA
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CATGCCAACAGTCTCCAGCCAGTAAAAAAGGGATGTTCACAGATGACTTACACAAGCTGGTGGATGACTG
GACAAAGGAAGCAGTAGGAAATTCTCTTATTAAGCCAAGTTTAAACCAACTTAAACAAAGTCAACACAAA
CTAGAGACAGAAAACTGGAATAAAGTATCTGAAAATACTCCGTCTACTATGGGCTACACATCAACATGGA
TTTCTTCTCTGTCCCAAATCCGTGGAGCTGTCCCAACTTCCTTGCCACAAGGACTCTCACTCCCTTCATT
TCCTGGGCCATTATCATCATATGGAATGCCTCACGTTTGTCAGTATAATGCTGTGGCGGGGGCGGGGTAT

CCAGTACAGTGGGTAGGAATTTCAGGAACAACACAACAATCTGTAGTAATTCCCGCCCAATCTGGGGGAC
CATTCCAGCCAGGGATGAATATGCAGGCATTTCCAACTTCATCAGTGCAGAATCCTGCCACAATCCCTCC
TGGTCCTAAATGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_020922 unedited
TTTTCGGGTTTTCCGGGAAAAACCGNAGGNATTTNCTTTGNAAAACGNATTCCCCAGGTC
GCTGCAACTTTGACAGTAGAAGCTAGACTAAAGGAGAAAAACAGTACCTTCTCTGCTTCT
GGGGAAACTGTAGAAAGGAAGAGATTTTTCCGAAAGAGTGTTGAAATGACGGAAGATGAC
AAAGTTGCACAATCATCCCCCAAAGATGAGAGAATTAAGGCTGCAATGAATATTCCAAGA
GTAGATAAGCTTCCTTCAAATGTGTTGAGAGGTGGACAAGAAGTTAAATATGAACAGTGT
TCAAAGTCAACCTCAGAAATCTCAAAAGATTGTTTCAAGGAGAAAAATGAAAAGGAAATG
GAAGAAGAAGCAGAAATGAAGGCTGTAGCTACTTCTCCTAGTGGCAGATTCCTGAAATTT
GACATAGAACTAGGAAGAGGAGCATTTAAAACAGTATATAAAGGACTGGACACTGAAACA
TGGGTTGAGGTTGCTTGGTGTGAGCTGCAGGACCGAAAGTTAACCAAAGCTGAGCAGCAA
AGATTCAAGGAAGAAGCAGAGATGTTGAAGGGTCTCCAGCACCCCAATATAGTTCGATTT
TATGATTCCTGGGAATCTATATTAAAAGGAAAGAAATGTATTGTATTAGTGACTGAACTA
ATGACATCTGGGACCTTAAAGACGTACTTAAAACGATTTAAAGTCATGAAACCAAAAGTC
TTAAGGAGCTGGTGCANGCAAATTTAAAGGGGTTTGCAGTTTCTGCACACTAGGACTCCT
CCTATTATTCCACGGGATCTGAAGTGTGACAATATTTTCATCACGGGACCCACTGGATCT
GTGAAAGATTGTGATCTAGGATTAACCCCCTTTATGCGTCCCTAATTGCCAAAATGTCTT
GGGACTTCCGATTTATGGCTCCGAAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_020922 unedited
ATTCTANGATCGATTTTTTTTTTTTTTTTTCCAGAAGGAAAAAACTTTATATCTTGGGT
GTCCTGAAAAAATTCTGAAAAAACCTCCCTTTTTATCACCATCTACTCTGATTCATTTAG
GACCAGGAGGGATTGTGGCAGGATTCTGCACTGATGAAGTTGGAAATGCCTGCATATTCA
TCCCTGGCTGGAATGGTCCCCCAAATTGGGCGGGAATTACTACAGATTGTTGTGTTGTTC
CCTGAAATCCTACCCACTGTACTGAAATCCCCCGCCCCCGCCCCAAGCATTATACTGGAC
AAAACGTGGAGGGATTCCTATGATGAAAATGCCCCGGAAATGAGGGGGGTGAAAACCTTT
GGGCAAGGAGAATTGGAAACCCCCCCGGTTTTTGAACAAAAAAAAAACCCCGGTTGGTGG
GGCCCCCATTAAACGGGGTTTTTCAAAACCTTTTTCCCCGTTTTTTCCCCCCATTTTGGG
GGACTTTTTTAAATTGGTTAAAACTTGGGGTTAAAAAAAAAAATTTCAGGGGGGCCCTTT
GGCGCCCACCCCCCCCCTCTGGTGGGGAAATTCCTTGGAAAACACCCTCTTTTTTTTGCG
GGGGGGGAAACATGGTAGGAGAAAAAACCCCAAATTATCCCCCCCCACACAGGGGGGTGT
TTTTGTGGACCCACTCCTCGCCGCTTGTTTCCANGTTGTTTTTAAGAGGGGGAGGGGGGC
GCCCCCCACAACAGTATTTTTTTATAGAAC

**Restriction Sites:** Please inquire

**ACCN:** NM_020922

**Insert Size:** 6000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020922.2, NP_065973.2

**RefSeq Size:** 11356 bp

**RefSeq ORF:** 5403 bp

**Locus ID:** 65267

**UniProt ID:** Q9BYP7

**Cytogenetics:** Xp11.22

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** This gene encodes a protein belonging to the 'with no lysine' family of serine-threonine protein kinases. These family members lack the catalytic lysine in subdomain II, and instead have a conserved lysine in subdomain I. This family member functions as a positive regulator of the transcellular Ca2+ transport pathway, and it plays a role in the increase of cell survival in a caspase-3-dependent pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.