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Product datasheet for RC214627

WNK3 (NM_020922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK3 (NM_020922) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WNK3
Synonyms:	PRKWNK3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC214627 representing NM_020922 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCACTGATTCAGGGGATCCAGCCAGCACAGAAGATTCTGAGAAACCTGATGGAATTTCATTTGAAA ACAGAGTTCCCCAGGTCGCTGCAACTTTGACAGTAGAAGCTAGACTAAAGGAGAAAAACAGTACCTTCTC TGCTTCTGGGGAAACTGTAGAAAGGAAGAGATTTTTCCGAAAGAGTGTTGAAATGACGGAAGATGACAAA GTTGCCGAATCATCCCCCAAAGATGAGAGAATTAAGGCTGCAATGAATATTCCAAGAGTAGATAAGCTTC CTTCAAATGTGTTGAGAGGTGGACAAGAAGTTAAATATGAACAGTGTTCAAAGTCAACCTCAGAAATCTC AAAAGATTGTTTCAAGGAGAAAAATGAAAAGGAAATGGAAGAAGAAGCAGAAATGAAGGCTGTAGCTACT TCTCCTAGTGGCAGATTCCTGAAATTTGACATAGAACTAGGAAGAGGAGCATTTAAAACAGTATATAAAG GACTGGACACTGAAACATGGGTTGAGGTTGCTTGGTGTGAGCTGCAGGACCGAAAGTTAACCAAAGCTGA GCAGCAAAGATTCAAGGAAGAAGCAGAGATGTTGAAGGGTCTCCAGCACCCCAATATAGTTCGATTTTAT GATTCCTGGGAATCTATATTAAAAGGAAAGAAATGTATTGTATTAGTGACTGAACTAATGACATCTGGGA CCTTAAAGACGTACTTAAAACGATTTAAAGTCATGAAACCAAAGGTCTTAAGGAGCTGGTGCAGGCAAAT TTTAAAGGGGTTGCAGTTCTTGCACACTAGGACTCCTCCTATTATTCACCGGGATCTGAAGTGTGACAAT ATTTTCATCACGGGACCCACTGGATCTGTGAAGATTGGTGATCTAGGATTAGCCACCTTAATGCGTACCT CATTTGCTAAGAGTGTCATTGGAACTCCTGAGTTTATGGCTCCAGAGATGTATGAAGAACACTATGATGA ATCCGTAGATGTTTATGCTTTTGGAATGTGTATGCTGGAAATGGCCACATCGGAGTATCCTTATTCTGAG TGTCAGAATGCAGCTCAAATATACCGGAAAGTAACTAGTGGCATAAAACCAGCCAGCTTCAATAAAGTCA CTGATCCTGAAGTCAAAGAAATCATTGAAGGATGTATTCGTCAAAACAAATCTGAAAGGTTGTCTATCAG GGACCTATTAAACCATGCATTTTTTGCTGAGGATACAGGACTGAGGGTGGAGTTAGCAGAAGAAGATGAT TGCTCAAATTCATCCCTTGCTTTAAGACTCTGGGTTGAAGACCCTAAAAAATTGAAAGGCAAACACAAAG ACAATGAAGCTATTGAATTTAGTTTCAACTTAGAAACAGATACACCTGAGGAAGTAGCATATGAAATGGT CAAGTCTGGGTTCTTCCATGAAAGTGATTCCAAAGCTGTTGCTAAATCCATTAGAGACCGGGTGACGCCA ATAAAGAAGACAAGAGAGAAGAAGCCTGCTGGCTGTTTGGAAGAACGCAGGGATTCTCAGTGCAAGTCTA

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Protein Sequence:

>RC214627 representing NM_020922
Red=Cloning site Green=Tags(s)

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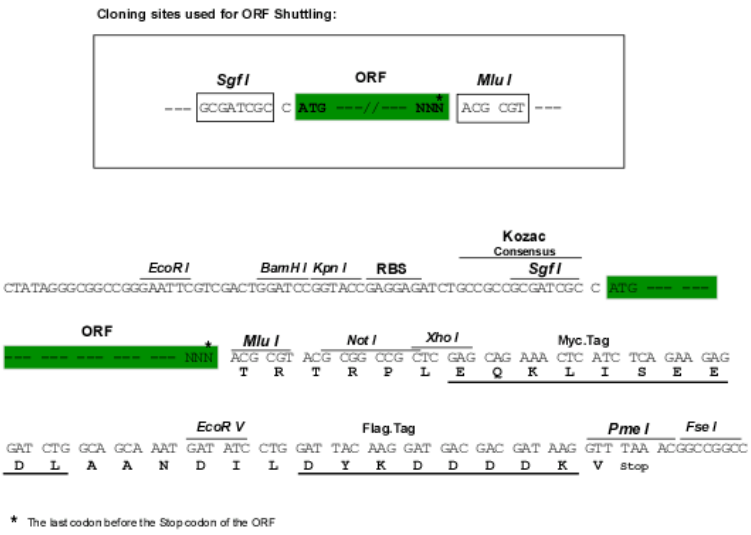
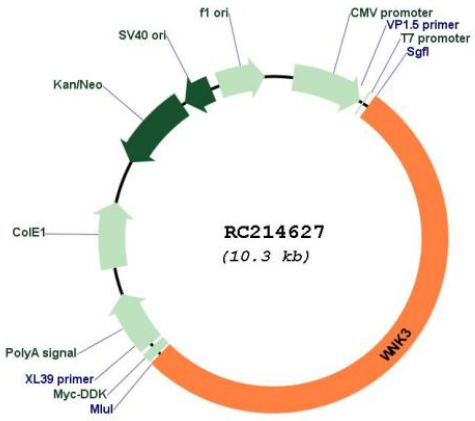
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020922

ORF Size:	5400 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. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_020922.4, NP_065973.2
RefSeq Size:	7743 bp
RefSeq ORF:	5403 bp
Locus ID:	65267
UniProt ID:	Q9BYP7
Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome, Protein Kinase
MW:	198.2 kDa
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]