

Product datasheet for **RG214627**

WNK3 (NM_020922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNK3 (NM_020922) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNK3
Synonyms:	PRKWNK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214627 representing NM_020922 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACTGATTCAGGGGATCCAGCCAGCACAGAAGATTCTGAGAACTGATGGAATTCATTTGAAA
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TGCTTCTGGGAACTGTAGAAAGGAAGAGATTTTCCGAAAGAGTGTTGAAATGACGGAAGATGACAAA
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ATAAAGAAGACAAGAGAGAAGAAGCCTGCTGGCTGTTTGAAGAACGCAGGGATTCTCAGTGCAAGTCTA
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 TCCTGGGCCATTATCATCATATGGAATGCCTCACGTTTGTAGTATAATGCTGTGGCGGGGGCGGGTAT
 CCAGTACAGTGGGTAGGAATTCAGGAACAACAACAATCTGTAGTAATCCCGCCCAATCTGGGGGAC
 CATTCCAGCCAGGGATGAATATGCAGGCATTTCCAACCTCATCAGTGCAGAATCTGCCACAATCCCTCC
 TGGTCCTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214627 representing NM_020922
 Red=Cloning site Green=Tags(s)

MATDSGDPASTEDSEKPDGIFSFENRVPQVAATLTVEARLKEKNSTFSASGETVERKRFRKSVEMTEDDK
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 SFQRGRFQVITIPQQQSAKMTSFGIEHISVSETNHSSEAFIKTAKSQLVEIEPATQNPKTSFSYEKQLQ
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 SDSEFSASLAGSGKSVAKTGPESNQCLPHHEEQAYAQTQSSLFYSPSSPMSDDSEIEDEDLKVQLRL
 REKHIQEVVNLQTQQNKELQELYERLRSIKDSKTQSTEIPLPPASPRRPRSFKSKLRSRPSQLTHVDNGI
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 LETENWNKVSENTPSTMGYTSTWISSLSQIRGAVPTSLPQGLSLPSFPGPLSSYGMPHVCQYNAVAGAGY
 PVQVWGISGTTQQSVVIPAQSGGPFQPGMNMQAFPTSSVQNPATIPPQPK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ORF Size:	11353 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	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
Gene Summary:	<p>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]</p>