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Product datasheet for SC109988

RIOK3 (NM_145906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIOK3 (NM_145906) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIOK3
Synonyms:	SUDD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145906, the custom clone sequence may differ by one or more nucleotides

ATGGATCTGGTAGGAGTGGCATCGCCTGAGCCCGGGACGGCAGCGGCCTGGGGACCCAGCAAGTGTCCAT
GGGCTATTCCTCAAAATACAATATCTTGTTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATT
GCAGTTAGAAGAAGAAGCTGCCGTTTTTCCTGAAGTTGCTGTTGCTGAAGGACCATTTATTACTGGAGAA
AACATTGATACTTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAATATGACAGAGAATATGATG
CACAGCTTAGGCGTGAAGAAAAAAAATTCAATGGAGATAGCAAAGTTTCCATTTCCTTTGAAAATTATCG
AAAAGTGCATCCTTATGAAGACAGCGATAGCTCTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGAT
CCCTACAGACCAGCAAAACCGGTTCCCACTCCTAAAAAGGGCTTTATTGGAAAAGGAAAAGATATCACCA
CCAAACATGATGAAGTAGTATGTGGGAGAAAGAACACAGCAAGAATGGAAAATTTTGCACCTGAGTTTCA
GGTAGGAGATGGAATTGGAATGGATTTAAAACTATCAAACCATGTTTTCAATGCTTTAAAACAACATGCC
TACTCAGAAGAACGTCGAAGTGCCCGCCTACATGAGAAAAAGGAGCATTCTACAGCAGAAAAAGCAGTTG
ATCCTAAGACACGTTTACTTATGTATAAAATGGTCAACTCTGGAATGTTGGAGACAATCACTGGCTGTAT
TAGTACAGGAAAGGAGTCTGTTGTCTTTCATGCATATGGAGGGAGCATGGAGGATGAAAAGGAAGATAGT
AAAGTTATACCTACAGAATGTGCCATCAAGGTATTTAAAACAACCCTTAATGAATTTAAGAATCGTGACA
AATATATTAAAGATGATTTCAGGTTTAAAGATCGCTTCAGTAAACTAAATCCACGTAAGATCATCCGCAT
GTGGGCAGAAAAAGAAATGCACAATCTCGCAAGAATGCAGAGAGCTGGAATTCCTTGTCCAACAGTTGTA
CTACTGAAGAAACACATTTTAGTTATGTCTTTTATTGGCCATGATCAAGTTCCAGCCCCTAAATTAAAAG
AAGTAAAGCTCAATAGTGAAGAAATGAAAGAAGCCTACTATCAAACTCTTCATTTGATGCGGCAGTTATA
TCATGAATGTACGCTTGTCCATGCTGACCTCAGTGAGTATAACATGCTGTGGCATGCTGGAAAGGTGAGG
AGCACATTTTGTTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145906 unedited
GCACAATTTGTAATACGACTCACTATAGGGCGGCCGCGAAATCGGCACGAGCCGGCATCA
GCAGCCAGTCGCCCGTGTCCCGCCTGTCTCCTCGGCGGAGCCTGCTGCCCGTCCTGCCAC
CTCTCTGCTCTGTTCTTGTCTCTGCCTTCATTCCCGAATGGATCTGGTAGGAGTGGCATC
GCCTGAGCCCGGGACGGCAGCGGCCTGGGGACCCAGCAAGTGTCCATGGGCTATTCCTCA
AAATACAATATCTTGTTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATTGCA
GTTAGAAGAAGAAGCTGCCGTTTTTCCTGAAGTTGCTGTTGCTGAAGGACCATTTATTAC
TGGAGAAAACATTGATACTTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAAAT
ATGACAGAGAATATGATGCACAGCTTAGGCGTGAAGAAAAAAAATTCAATGGAGATAGCA
AAGTTTCCATTTCCTTTGAAAATTATCGAAAAGTGCATCCTTATGAAGACAGCGATAGCT
CTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGATCCCTACAGACCAGCAAAACCGG
TTCCCACTCCTAAAAAGGGCTNTATTGGAAAAGGAAAAGATATCACCACCAAACATGATG
AAAGTAGTATGTGGGAGAAAGACACAGNCAGAATGGAAAATTNTGCACCCTGAGTTCANG
TANGAGATGGAAATTGAATGGATNTAAAACTATCAAACCATGTTTTCAATGCTTTAAAAC
AACATGCCTACTCAGAAGACGCTCGAAGTGCCCCGCCTACATGAGGAAAAAGGAGCTTCC
TACAGCAGAAAAAGCAGTTGATCCTAAGAACGTNTACTTATGTATTAAATGGTCCACTCT
GGAATGTTGNAGACATCACTGGCTGTATAATACAAGAAAAGATCTGTTGTCCTCCATGCT
ATGNAGGAGCATGNAGATGAAAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145906 unedited
CGGAAATCGGAGTACGTCGNCGCAATCGAGGATCNGTTTTTTTTTTTTTTTTTTCTGGAG
AGGAGTTTCCCTCTGTCACCTAGGCCGGAGTGCAGTGGCATGATCTCAGCTCACTGCAAC
CTCTGCCTCCCGGGTTCAAGCGATTCTCCTGTCTCAGCCTCCTGAGAAGCTGAGATTACA
GAGAAGTGCCACCACACCCGGCTAATTTTTGTATTTTTTTTTTAGACAGGGTTTCGCCAT
GTTGCCCAGGCTGGTCTTGAACTCCTGACCTCAAGTGATCCACCCGCCTTGGTCTCCCAA
AGTGCTGGGATTACAGGTTTGAGCCATCGTGCCTGGCCCCCAAATTGTTTTATATATACC
TTTCATCCTTAGATTTAATATTTCTAATTTGTGATATTTCTCTGAAAATCAATCAAGTAC
ACAGTTCTAGTGAAATATAAACTGAATTTTGCTTCATTAACTAAATTAAAATACGTCAAA
CATGGTTAAATCTTATATTCTGTCCTTTCAGATAATTTACATTTTATTGATAAATGTAGA
TTAGCCACACCATGAGTTATATCCTAACCATTTTACCTAAATGTAAAAAAGCTGAAAGTT
GACTGGATAGGTAAAAAGCTGTTATATAGTTATCTCTTTCAGAAACCTATGATGGCTTTT
TCTTAGATATAAGTATGGGAAAAAGATATCTGTTCATTTTGCATGATATATCAACAAAAA
TTACATGACTTTTTGTCGATTTTTGGCAGCCATTTTGAACCCAAATTTTCATTTTGTTTT
AACCACCTAAAAGAGCACACTTTTTTCCTTTATAAATCACCGGCCACGGTTCTGAAAACA
TATTTGGAAGAAAGGCTAACTCTTGGGCCCAATAAAAATTTTTCAAGGGAAGGACACCCC
CCCACAAACAGGGGGGTTGGAAAAAC

Restriction Sites: NotI-NotI

ACCN: NM_145906

Insert Size: 3000 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).

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_145906.1, NP_665913.1
RefSeq Size:	3589 bp
RefSeq ORF:	1275 bp
Locus ID:	8780
Cytogenetics:	18q11.2
Domains:	RIO
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene was first identified by the similarity of its product to the Aspergillus nidulans SUDD protein. This gene is now recognized as a member of the right open reading frame (RIO) kinase gene family. This gene encodes a serine/threonine kinase that localizes to the cytoplasm and plays a role in the processing of the pre-40 S ribosomal subunit. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2017] Transcript Variant: This variant (2) represents a longer transcript that contains an extra segment, when compared to variant 1. The extra segment leads to a frameshift, and results in an isoform (2) that contains a different and shorter C-terminus, as compared to isoform 1.