

Product datasheet for **SC109987**

RIOK3 (NM_003831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIOK3 (NM_003831) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIOK3
Synonyms:	SUDD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003831, the custom clone sequence may differ by one or more nucleotides

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ATGGATCTGGTAGGAGTGGCATCGCCTGAGCCCGGACGGCAGCGGCCTGGGGACCCAGCAAGTGTCCAT
GGGCTATTCTCAAAATACAATATCTTGTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATT
GCAGTTAGAAGAAGAAGCTGCCGTTTTCTGAAGTTGCTGTTGCTGAAGGACCATTTATTACTGGAGAA
AACATTGATACTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAATATGACAGAGAATATGATG
CACAGCTTAGGCGTGAAGAAAAAAATTCAATGGAGATAGCAAAGTTTCATTTCTTTGAAAAATTATCG
AAAAGTGCATCCTTATGAAGACAGCGATAGCTCTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGAT
CCCTACAGACCAGCAAAACCGGTTCCCACTCTAAAAAGGGCTTTATTGGAAAAGGAAAAGATATCACCA
CCAAACATGATGAAGTAGTATGTGGGAGAAAGAACACAGCAAGAATGGAAAAATTTGCACCTGAGTTTCA
GGTAGGAGATGGAATTGGAATGGATTTAAACTATCAAACCATGTTTTCAATGCTTTAAACAACATGCC
TACTCAGAAGAACGTCGAAGTGGCCGCTACATGAGAAAAAGGAGCATTCTACAGCAGAAAAAGCAGTTG
ATCCTAAGACACGTTTACTTATGTATAAAATGGTCAACTCTGGAATGTTGGAGACAATCACTGGCTGTAT
TAGTACAGGAAAGGAGTCTGTTGTCTTTCATGCATATGGAGGGAGCATGGAGGATGAAAAGGAAGATAGT
AAAGTTATACCTACAGAATGTGCCATCAAGGTATTTAAAAACAACCCTTAATGAATTTAAGATCGTGACA
AATATATTAAAGATGATTTCAAGTTTAAAGATCGCTTCAGTAACTAAATCCACGTAAGATCATCCGCAT
GTGGGCAGAAAAAGAAATGCACAATCTCGCAAGAATGCAGAGAGCTGGAATTCCTGTCCAACAGTTGTA
CTACTGAAGAAACACATTTTAGTTATGTCTTTATTGGCCATGATCAAGTTCCAGCCCCTAAATTTAAAG
AAGTAAAGCTCAATAGTGAAGAAATGAAAGAAGCCTACTATCAAACCTCTCATTTGATGCGGCAGTTATA
TCATGAATGTACGCTTGCCATGCTGACCTCAGTGAGTATAACATGCTGTGGCATGCTGGAAAGGCTG
TTGATCGATGTCAGTCAGTCAGTAGAACCTACCCACCCTCACGGCCTGGAGTTCTTGTTCGGGACTGCA
GGAATGTCTCGCAGTTTTTCCAGAAAGGAGGAGTCAAGGAAGCCCTTAGTGAACGAGAAGCTCTCAATGC
TGTTTCAGGCTTAAACATCACAGCAGATAATGAAGCTGATTTTTAGCTGAGATAGAAGCTTTGGAGAAA
ATGAATGAAGATCACGTTTCAGAAGAATGGAAGGAAAGCTGCTTCATTTTTGAAAGATGATGGAGACCCAC
CACTACTATATGATGAATAG
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Restriction Sites: NotI-NotI

ACCN: NM_003831

Insert Size: 2900 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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003831.2.

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:	<u>NM_003831.2, NP_003822.2</u>
RefSeq Size:	4035 bp
RefSeq ORF:	4035 bp
Locus ID:	8780
UniProt ID:	<u>O14730</u>
Cytogenetics:	18q11.2
Domains:	RIO
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes a longer isoform (1).</p>