

## Product datasheet for **RC212139**

### **RIOK3 (NM\_003831) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIOK3 (NM_003831) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIOK3
Synonyms:	SUDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212139 representing NM\_003831  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCTGGTAGGAGTGGCATCGCCTGAGCCCGGACGCGCAGCGCCTGGGGACCCAGCAAGTGTCCAT  
 GGGCTATTCTCAAATACAATATCTTGTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATT  
 GCAGTTAGAAGAAGAAGCTGCCGTTTTCTGAAGTTGCTGTTGCTGAAGGACCTTTTACTGGAGAA  
 AACATTGATACTTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAATATGACAGAGAATATGATG  
 CACAGCTTAGGCGTGAAGAAAAAATCAATGGAGATAGCAAAGTTTCCATTTCTTTGAAAAATTATCG  
 AAAAGTGCATCCTTATGAAGACAGCGATAGCTCTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGAT  
 CCCTACAGACCAGCAAACCGGTTCCACTCCTAAAAAGGGCTTTATTGGAAAAGGAAAAGATATCACCA  
 CCAAACATGATGAAGTAGTATGTGGGAGAAAGAACACAGCAAGAATGGAAAAATTTGCACCTGAGTTTCA  
 GGTAGGAGATGGAATTGGAATGGATTTAAACTATCAAACCATGTTTTCAATGCTTTAAACAACATGCC  
 TACTCAGAAGAAGCTCGAAGTGCCCGCTACATGAGAAAAAGGAGCATTCTACAGCAGAAAAAGCAGTTG  
 ATCCTAAGACACGTTTACTTATGTATAAAATGGTCAACTCTGGAATGTTGGAGACAACTACTGGCTGTAT  
 TAGTACAGGAAAGGAGTCTGTTGTCTTTTCATGCATATGGAGGGAGCATGGAGGATGAAAAGGAAGATAGT  
 AAAGTTATACCTACAGAAATGTGCCATCAAGGATTTAAAAACAACCCTTAATGAATTTAAGAATCGTGACA  
 AATATATTAAGATGATTTTCAAGTTTAAAGATCGCTTTCAGTAACTAAATCCACGTAAAGATCATCCGCAT  
 GTGGGCAGAAAAAGAAATGCACAATCTCGCAAGAATGCAGAGAGCTGGAATTCCTGTCCAACAGTTGTA  
 CTAAGTAAAGCTCAATAGTGAAGAAATGAAAGAAGCCTACTATCAAACCTTCTCATTGATGGCGGAGTTTA  
 TCATGAATGTACGCTTGTCCATGCTGACCTCAGTGAGTATAACATGCTGTGGCATGCTGGAAAGGCTGG  
 TTGATCGATGTCAGTCAGTCAAGTACAACCTACCCACCCTCACGGCCTGGAGTTCTTGTTCGGGACTGCA  
 GGAATGTCTCGCAGTTTTTCCAGAAAGGAGGAGTCAAGGAAGCCCTTAGTGAACGAGAACTTTCAATGC  
 TGTTCAGGCTTAAACATCACAGCAGATAATGAAGCTGATTTTTAGCTGAGATAGAAGCTTTGGAGAAA  
 ATGAATGAAGATCACGTTTCAAGAAGTGAAGGAAAGCTGCTTCAATTTTGAAGATGATGGAGACCCAC  
 CACTACTATATGATGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC212139 representing NM\_003831  
 Red=Cloning site Green=Tags(s)

MDLVGVASPEPGTAAAWGPSKCPWAIPQNTISCSLADVMSEQLAKELQLEEEAAVFPEVAVAEGPFITGE  
 NIDTSSDLMLAQMLQMEYDREYDAQLRREEKFNKGDGSKVSI SFENYRKVHPYEDSDSSEDEVDWQDTRDD  
 PYRPAKPVPTPKKGF IGKGDITTKHDEVVCGRKNARMENFAPEFQVGDGIGMDLKL SNHVFNALKQHA  
 YSEERRSARLHEKKEHSTAEKAVDPKTRLLMYKMVNSGMLEITITGCISTGKESVVFHAYGGSMEDKEDS  
 KVIPTCAIKVFKTTLNEFKNRDKYIKDDFRFKDRFSKLNPRKI IRMWAEKEMHNLARMQRAGIPCTVV  
 LLKKHILVMSF IGHDQVPAPKLKEVKNLSEEMKEAYYQTLHLMRQLYHECTLVHADLSEYNMLWHAGKVV  
 LIDVSQSVEPTPHGLEFLFRDCRNVSQFFQKGGVKEALSERELFNAVSGLNITADNEADFLAEIEALEK  
 MNEDHVQKNGRKAASFLKDDGDPPLLYDE

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2534\\_f12.zip](https://cdn.origene.com/chromatograms/ja2534_f12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_003831

**ORF Size:** 1557 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](mailto: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).

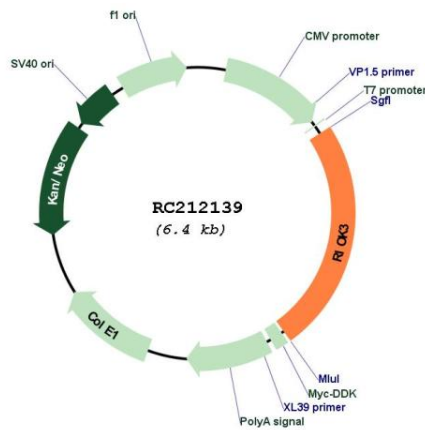
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_003831.5](#)

**RefSeq Size:** 4035 bp  
**RefSeq ORF:** 1560 bp  
**Locus ID:** 8780  
**UniProt ID:** [O14730](#)  
**Cytogenetics:** 18q11.2  
**Domains:** RIO  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 59.5 kDa

**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]

### Product images:



Circular map for RC212139