

Product datasheet for **RG212139**

RIOK3 (NM_003831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIOK3 (NM_003831) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIOK3
Synonyms:	SUDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG212139 representing NM_003831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCTGGTAGGAGTGGCATCGCCTGAGCCCGGACGCGCAGCGCCTGGGGACCCAGCAAGTGTCCAT
 GGGCTATTCTCAAATACAATATCTTGTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATT
 GCAGTTAGAAGAAGAAGCTGCCGTTTTCTGAAGTTGCTGTTGCTGAAGGACCATTTTACTGGAGAA
 AACATTGATACTTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAATATGACAGAGAATATGATG
 CACAGCTTAGGCGTGAAGAAAAAATCAATGGAGATAGCAAAGTTTCCATTTCTTTGAAAAATTATCG
 AAAAGTGCATCCTTATGAAGACAGCGATAGCTCTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGAT
 CCCTACAGACCAGCAAACCGGTTCCACTCCTAAAAAGGGCTTTATTGGAAAAGGAAAAGATATCACCA
 CCAAACATGATGAAGTAGTATGTGGGAGAAAGAACACAGCAAGAATGGAAAAATTTGCACCTGAGTTTCA
 GGTAGGAGATGGAATTGGAATGGATTTAAACTATCAAACCATGTTTTCAATGCTTTAAACAACATGCC
 TACTCAGAAGAAGCTCGAAGTGCCCGCTACATGAGAAAAAGGAGCATTCTACAGCAGAAAAAGCAGTTG
 ATCCTAAGACACGTTTACTTATGTATAAAATGGTCAACTCTGGAATGTTGGAGACAACTACTGGCTGTAT
 TAGTACAGGAAAGGAGTCTGTTGTCTTTTCATGCATATGGAGGGAGCATGGAGGATGAAAAGGAAGATAGT
 AAAGTTATACCTACAGAAATGTGCCATCAAGGATTTTAAACAACCCTTAATGAATTTAAGAATCGTGACA
 AATATATTAAGATGATTTTCAGGTTTAAAGATCGCTTCAGTAACTAAATCCACGTAAGATCATCCGCAT
 GTGGGCAGAAAAAGAAATGCACAATCTCGCAAGAATGCAGAGAGCTGGAATTCCTGTCCAACAGTTGTA
 CTACTGAAGAAACACATTTTAGTTATGTCTTTTATTGGCCATGATCAAGTCCAGCCCCTAAATTTAAAG
 AAGTAAAGCTCAATAGTGAAGAAATGAAAGAAGCCTACTATCAAACCTTTCATTTGATCGGCAGTTATA
 TCATGAATGTACGCTTGCCATGCTGACCTCAGTGAGTATAACATGCTGTGGCATGCTGGAAAGGCTGG
 TTGATCGATGTCAGTCAGTCAGTAGAACCTACCCACCCTCACGGCCTGGAGTTCTTGTTCGGGACTGCA
 GGAATGTCTCGCAGTTTTTCCAGAAAGGAGGAGTCAAGGAAGCCCTTAGTGAACGAGAACTCTTCAATGC
 TGTTTTCAGGCTTAAACATCACAGCAGATAATGAAGCTGATTTTTTAGCTGAGATAGAAGCTTTGGAGAAA
 ATGAATGAAGATCACGTTTCAAGAATGGAAGGAAAGCTGCTTCATTTTTGAAAGATGATGGAGACCCAC
 CACTACTATATGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212139 representing NM_003831
 Red=Cloning site Green=Tags(s)

MDLVGVASPEPGTAAAWGPSKCPWAIPQNTISCSLADVMSEQLAKELQLEEEAAVFPEVAVAEQPFITGE
 NIDTSSDLMLAQMLQMEYDREYDAQLRREEKFKNGDSKVSISFENYRKVHPYEDSDSSEDEVDWQDTRDD
 PYRPAKPVPTPKKGFIGKGDITTKHDEVVCGRKN TARMENFAPEFQVGDGIGMDLKL SNHVFNALKQHA
 YSEERRSARLHEKKEHSTAEKAVDPKTRLLMYKMVNSGMLETITGCI STGKESVVFHAYGGSMEDKEDS
 KVIPTECAIKVFKTTLNEFKNRDKYIKDDFRFKDRFSKLNPRKIIRMWAEKEMHNLARMQRAGIPCPTVV
 LLKKHILVMSFIGHDQVPAPKLKEVKLNSEEMKEAYYQTLHLMRQLYHECTLVHADLSEYNMLWHAGKVV
 LIDVSQSVEPTPHGLEFLFRDCRNVSQFFQKGGVKEALSERELFNAVSGLNITADNEADFLAEIEALEK
 MNEDHVQKNGRKAASFLKDDGDPPLLYDE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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 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.

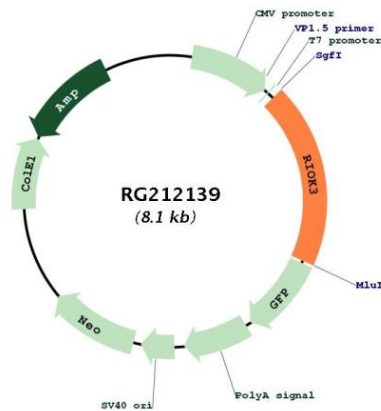
RefSeq: [NM_003831.5](#)

RefSeq Size: 3497 bp
 RefSeq ORF: 1560 bp
 Locus ID: 8780
 UniProt ID: [O14730](#)
 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]

Product images:



Circular map for RG212139