

Product datasheet for **RG205314**

RIOK3 (NM_145906) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RIOK3 (NM_145906) 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)
ORF Nucleotide Sequence: >RG205314 representing NM_145906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCTGGTAGGAGTGGCATCGCCTGAGCCCGGACGGCAGCGGCCTGGGGACCCAGCAAGTGTCCAT
 GGGCTATTCCTCAAATAACAATATCTTGTCTTTGGCTGATGTAATGAGTGAACAGCTGGCCAAAGAATT
 GCAGTTAGAAGAAGAAGCTGCCGTTTTCTGAAGTTGCTGTTGCTGAAGGACCATTTACTGGAGAA
 AACATTGATACTCCAGTGACCTTATGCTGGCTCAGATGCTACAGATGGAATATGACAGAGAATATGATG
 CACAGCTTAGGCGTGAAAAAAAAAATCAATGGAGATAGCAAAGTTCCATTTCTTTGAAAATTATCG
 AAAAGTGCATCCTTATGAAGACAGCGATAGCTCTGAAGATGAGGTTGACTGGCAGGATACTCGTGATGAT
 CCCTACAGACCAGCAAAACCGGTTCCCACTCCTAAAAAGGGCTTTATTGGAAAAGGAAAAGATATACCA
 CAAACATGATGAAGTAGTATGTGGGAGAAAGAACACAGCAAGAATGGAAAATTTTGACCTGAGTTTCA
 GGTAGGAGATGGAATGGAAATGGATTTAAACTATCAAACCATGTTTTCAATGCTTTAAACAACATGCC
 TACTCAGAAGAACGTCGAAGTGCCCGCTACATGAGAAAAAGGAGCATTCTACAGCAGAAAAAGCAGTTG
 ATCCTAAGACACGTTTACTTATGTATAAAATGGTCAACTCTGGAATGTTGGAGACAATCACTGGCTGTAT
 TAGTACAGGAAAGGAGTCTGTTGCTTTTCATGCATATGGAGGGAGCATGGAGGATGAAAAGGAAGATAGT
 AAAGTTATACCTACAGAATGTCCATCAAGGTATTTAAACAACCCTTAATGAATTTAAGAAATCGTGACA
 AATATATTAAGATGATTCAGGTTTAAAGATCGCTTCAGTAAACTAAATCCACGTAAGATCATCCGCAT
 GTGGGCAGAAAAAGAAATGCACAATCTCGCAAGAATGCAGAGAGCTGGAATTCCTTGCCAAACGTTGTA
 CTAAGTGAAGAACACATTTTAGTTATGTCTTTATTGGCCATGATCAAGTTCAGCCCTAAATTTAAAG
 AAGTAAAGCTCAATAGTGAAGAAATGAAAGAAGCCTACTATCAAACCTCTCATTGATGCGGCAGTTATA
 TCATGAATGTACGCTTGCCATGCTGACCTCAGTGAGTATAACATGCTGTGGCATGCTGGAAGGTGAGG
 AGCACATTTTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205314 representing NM_145906
 Red=Cloning site Green=Tags(s)

MDLVGVASPEPGTAAAWGPSKCPWAIPQNTISCSLADMSEQLAKELQLEEEAAVFEVAVAEAGPFITGE
 NIDTSSDLMLAQLQMEYDREYDAQLRREKKKFNKSDKVSISFENYRKVHPYEDSDSSEDEVDWQDTRDD
 PYRPAKPVPPTPKKGF IGKGDITTKHDEVVCGRKNARMENFAPEFQVGDGIGMDLKL SNHVFNALKQHA
 YSEERRSARLHEKKEHSTAEKAVDPKTRLLMYKMNVSGLMLETITGCI STGKESVVFHAYGGSMEDKEDS
 KVIPTCAIKVFKTTLNEFKNRDKYIKDDFRFKDRF SKLNPRKI IRMWAEKEMHNLARMQRAGIPCPTVV
 LLKKHILVMSFIGHDQVPAPKLKEVKLNSEEMKEAYYQTLHLMRQLYHECTLVHADLSEYNMLWHAGKVR
 STFC

TRTRPLE - GFP Tag - V

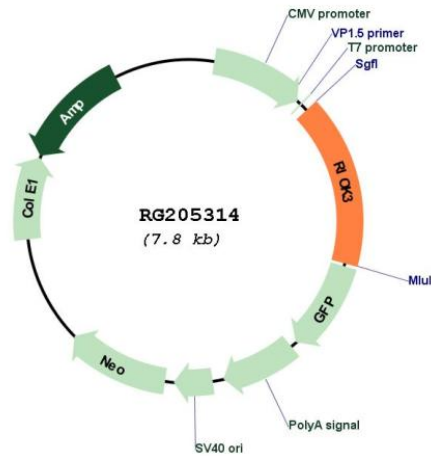
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_145906

| | |
|-------------------------------|---|
| ORF Size: | 1272 bp |
| OTI Disclaimer: | 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: | <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_145906.1 , NP_665913.1 |
| RefSeq Size: | 3589 bp |
| RefSeq ORF: | 1274 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 <i>Aspergillus nidulans</i> 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] |