

Product datasheet for **RG220667**

RIOK1 (NM_031480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIOK1 (NM_031480) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIOK1
Synonyms:	AD034; bA288G3.1; RIO1; RRP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220667 representing NM_031480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTACCGCGGCTTCTCATGAGCCGGTGGTCCCGGGCAATTCGACGACGGACTCCTCTGACA
 GTGAAAACAGAGACTTGAAGACAGTCAAAGAGAAGGATGACATTCTGTTTGAAGACCTTCAAGACAATGT
 GAATGAGAATGGTGAAGGTGAAATAGAAGATGAGGAGGAGGGTTATGATGATGATGATGATGACTGG
 GACTGGGATGAAGGAGTTGAAAACCGCCAAGGGTTATGCTGGAATGGAGGAAGCAACCCACAGGCAA
 ATCGACAGACCTCCGACAGCAGTTCAGCCAAAATGTCTACTCCAGCAGACAAGGTCTTACGGAAATTTGA
 GAATAAAATTAATTTAGATAAGCTAAATGTTACTGATTCCGTCATAAATAAAGTCACCGAAAAGTCTAGA
 CAAAAGGAAGCAGATATGTATCGCATCAAAGATAAGGCAGACAGCAACTGTAGAACAGGTGTTGGATC
 CCAGAACAAGAATGATTTTATTCAGATGTTGACTAGAGGAATCATAACAGAGATAAATGGCTGCATTAG
 CACAGGAAAAGAAGCTAATGTATACCATGCTAGCAGCAAAATGGAGAGAGCAGCAATCAAAATTTAT
 AAAACTTCTATTTTGGTGTCAAAGATCGGGATAAATATGTAAGTGGAGAATTCAGATTTTCGTCATGGCT
 ATTGTAAGGAAACCTAGGAAAATGGTAAAACCTGGGCAGAAAAGAAATGAGGAACTTAATCAGGCT
 AAACACAGCAGAGATACCATGTCCAGAACAATAATGCTAAGAAGTCATGTTCTTGTGATGAGTTTCATC
 GGTAAAGATGACATGCCTGCACCACTCTTGAAAATGTCCAGTTATCAGAATCCAAGGCTCGGGAGTTGT
 ACCTGCAGGTCATTCAGTACATGAGAAGAATGTATCAGGATGCCAGACTTGCCATGCAGATCTCAGTGA
 ATTTAACATGCTGTACCACGGTGGAGGCGGTATATCATTGACGTGTCTCAGTCCGTGGAGCAGACCAC
 CCACATGCCTTGGAGTTCTTGAGAAAGGATTGCCCAACGTCAATGATTTCTTTATGAGGCACAGTGTG
 CTGTCATGACTGTGCGGGAGCTTTTGAATTTGTCACAGATCCATCCATTACACATGAGAACATGGATGC
 TTATCTCTCAAAGGCCATGGAAATAGCATCTCAAAGGACCAAGGAAGAACGGTCTAGCCAAGATCATGTG
 GATGAAGAGGTGTTTAAGCGAGCATATATTCCTAGAACCCTGAATGAAGTAAAAAATTATGAGAGGGATA
 TGGACATAAATTATGAAATTGAAGGAAGAGGACATGGCCATGAATGCCAACAAGATAATATTCTATACCA
 GACTGTTACAGGATTGAAGAAAGATTTGTCAGGAGTTCAGAAGTCCCTGCACTCCTAGAAAATCAAGTG
 GAGGAAAGGACTTGTCTGATTGAGAAGATATTGGAAGCTCTGAGTGCTCTGACACAGACTCTGAAGAGC
 AGGGAGACCATGCCCGCCCAAGAAACACACCACGGACCCTGACATTGATAAAAAAGAAAGAAAAAGAT
 GGTC AAGGAAGCCAGAGAGAGAAAAGAAAAACAAAATTCCTAACATGTGAAAAAAGAAAGGAGAAG
 ACAGCCAAGACGAAAAAAGGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220667 representing NM_031480
 Red=Cloning site Green=Tags(s)

MDYRRLMSRVVPGQFDDADSSDSENRLDKTVKEKDDILFEDLQDNVNGEGEIEDEEEEGYDDDDDDW
 DWDEGVGKLAKGYVWNGGNSNPQANRQTSDDSSAKMSTPADKVLRFENKINLTKLNVTDVINKVTEKSR
 QKEADMYRIKDKADRATVEQVLDPTRMILFKMLTRGIIITEINGCISTGKEANVYHASTANGESRAIKIY
 KTSILVFKDRDKYVSGEFRFRHGYCKGNPRKMVKTWAEKEMRNLIRLNTAEIPCEPIMLRSHLVMSFI
 GKDDMPAPLLKNVQLSESKARELYLQVIQYMRMYQDARLVHADLSEFNMLYHGGGVYIIDVSQSVEHDH
 PHALEFLRKDCANVNDFFMRHSAVMTVRELFEFVTDPSITHENMDAYLSKAMEIASQRTKEERSSQDHV
 DEEVFKRAYIPRTLNEVKNYERMDIIMKLKEEDMAMNAQQDNILYQTVTGLKKDL SGVQKVPALLENQV
 EERTCSDSEDIGSSECSDTDSEEQGDHARPKHTTDPDIDKKERKKMVKEAQREKRKNKIPKHVKKRKEK
 TAKTKKGG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031480

ORF Size: 1704 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:

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_031480.2](#), [NP_113668.2](#)

RefSeq Size: 2495 bp

RefSeq ORF: 1707 bp

Locus ID: 83732

UniProt ID: [Q9BRS2](#)

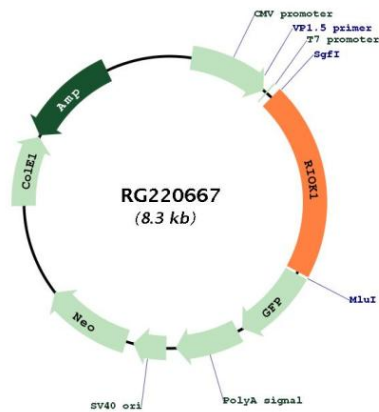
Cytogenetics: 6p24.3

Domains: RIO

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene competes with pICln for inclusion in the protein arginine methyltransferase 5 complex. This complex targets substrates for dimethylation. The encoded protein is essential for the last steps in the maturation of 40S subunits. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG220667