

Product datasheet for **RG202530**

RIP2 (RIPK2) (NM_003821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIP2 (RIPK2) (NM_003821) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIP2
Synonyms:	CARD3; CARDIAK; CCK; GIG30; RICK; RIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202530 representing NM_003821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGGGGAGGCCATCTGCAGCGCCCTGCCACCATTCCCTACCACAACTCGCCGACCTGCGCTACC
 TGAGCCGCGCGCCTCTGGCACTGTGTCGTCGCCCGCCACGCAGACTGGCGCGTCCAGGTGGCCGTGAA
 GCACCTGCACATCCACACTCCGCTGCTCGACAGTAAAAGAAAGGATGTCTTAAGAGAAGCTGAAATTTTA
 CACAAAGCTAGATTTAGTTACATTTCTCCAATTTTGGAAATTTGCAATGAGCCTGAATTTTGGAAATAG
 TTAAGTAAATACATGCCAAATGGATCATTAAATGAACTCTACATAGGAAAAGTAAATCCTGATGTTGC
 TTGGCCATTGAGATTTTCGCATCCTGCATGAAATGGCCTTGGTGTAAATACCTGCACAATATGACTCCT
 CCTTTACTTCATCATGACTTGAAGACTCAGAATATCTTATTGGACAATGAATTTTCATGTTAAGATTGCAG
 ATTTTGGTTTATCAAAGTGGCGCATGATGTCCCTCTCACAGTACGAAAGTAAAGTCTGCACCAGAAGG
 AGGGACAATTATCTATATGCCACCTGAAAAGTAACTGAACTGGACAAAAATCAAGGGCCAGTATCAAGCAC
 GATATATATAGCTATGCAGTTATCACATGGGAAGTGTATCCAGAAAACAGCCTTTTGAAGATGTCACCA
 ATCCTTTGCAGATAATGTATAGTGTGCACAAGGACATCGACCTGTTATTAATGAAGAAAAGTTTGCATA
 TGATATACCTCACCGAGCACGTATGATCTCTCTAATAGAAAAGTGGATGGGCACAAAATCCAGATGAAAGA
 CCATCTTTCTTAAATGTTTAAAGAACTTGAACAGTTTGGAGAACATTTGAAGAGATAACTTTTCTTG
 AAGCTGTTATTCAGCTAAAGAAAACAAAGTTACAGAGTGTTCAGTGGCATTACCTATGTGACAAGAA
 GAAAATGGAATTTCTCTGAACATACCTGTAATCATGGTCCACAAGAGGAATCATGTGGATCCTCTCAG
 CTCCATGAAAATAGTGGTTCTCTGAACTTCAAGGTCCCTGCCAGCTCCTCAAGACAATGATTTTTTAT
 CTAGAAAAGCTCAAGACTGTTATTTTATGAAGCTGCATCACTGTCTGGAAATCACAGTTGGGATGCAC
 CATTCTGGATCTCAAAGGGCTGCATTCTGTGATCACAAGACCCTCCATGCTCTTCAGCAATAATAAAT
 CCACTCTCAACTGCAGGAACTCAGAAGCTCTGCAGCCTGGTATAGCCCAGCAGTGGATCCAGAGAAAA
 GGAAGACATTGTGAACCAAATGACAGAAGCCTGCCTTAAACCAGTCGCTAGATGCCCTTCTGTCCAGGGA
 CTTGATCATGAAAGAGGACTATGAACTTGTAGTACCAAGCCTACAAGGACCTCAAAAGTCAAGACAATTA
 CTAGACACTACTGACATCCAAGGAGAAGAAATTTGCCAAAGTTATAGTACAAAAATGAAAGATAACAAAC
 AAATGGGTCTTCAGCCTTACCCGAAAATACTTGTGGTTTCTAGATCACCATCTTTAAATTTACTTCAAAA
 TAAAAGCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202530 representing NM_003821
 Red=Cloning site Green=Tags(s)

MNGEAIKCSALPTIPYHKLADLRYLSRGASGTVSSARHADWRVQVAVKHLHIHTPLLDSEKRDVLRREAIL
 HKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDVAWPLRFRILHEIALGVNYLHNMTPL
 LLHDLKTNILLDNEFHVKIADFGLSKWRMMSLSQSRSSKSAPEGGTIIYMPENYEPGQKSRASIKH
 DIYSYAVITWEVLSRKQPFEDVTNPLQIMYSVSGHRPVINEESLPYDIPHRARMISLIESGWAQNPDER
 PSFLKCLIELEPVLRTFEEITFLEAVIQLKTKLQSVSSAIHLCDKMKMELSLNIPVNHGPQEESCSSQ
 LHENSGSPETSRLPAPQDNDFLSRKAQDCYFMKLHHCPCGNHSDSTISGSQRAAFCDHKTTPCSSAIIN
 PLSTAGNSERLQPGIAQQWIQSKREDIVNQMTEACLNQSLDALLSRDLIMKEDYELVSTKPTRTSKVRQL
 LDTTDIQGEEFAKVIVQKLDKNQMLQPYPEILVVSRSPLNLLQNKSM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003821

ORF Size: 1620 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.

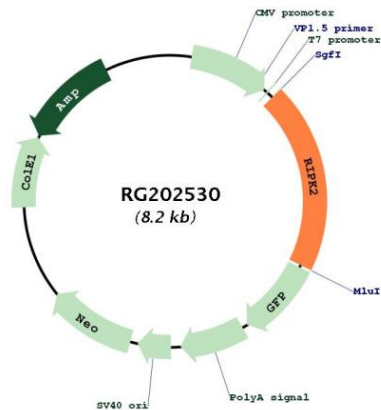
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_003821.6
RefSeq Size:	2521 bp
RefSeq ORF:	1623 bp
Locus ID:	8767
UniProt ID:	O43353
Cytogenetics:	8q21.3
Domains:	pkinase, TyrKc, CARD, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Neurotrophin signaling pathway, NOD-like receptor signaling pathway
Gene Summary:	This gene encodes a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases. The encoded protein contains a C-terminal caspase activation and recruitment domain (CARD), and is a component of signaling complexes in both the innate and adaptive immune pathways. It is a potent activator of NF-kappaB and inducer of apoptosis in response to various stimuli. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202530