

Product datasheet for **SC327028**

RIOK2 (NM_001159749) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIOK2 (NM_001159749) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIOK2
Synonyms:	RIO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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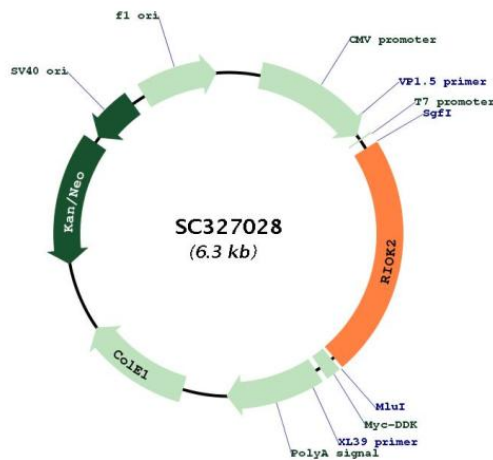
Fully Sequenced ORF: >SC327028 representing NM_001159749.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAAAGTGAATGTGGCCAAGTTGCGTTACATGAGCCGAGATGACTTCAGGGTCTTGACCCGGTT
GAAATGGGCATGAAGAACCATGAAATTGTTCCCGCAGTTTGATTGCTTCTATAGCCAGCCTTAAACAT
GGTGGCTGTAATAAAGTTTTAAGAGAATTAGTGAACATAAACTCATAGCTTGGGAGCGTACCAAACT
GTCAGGGCTATCGGTTGACAAATGCAGGATATGATTACCTAGCTTTGAAAACTTTCTCTAGGCAA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001159749

Insert Size: 1425 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001159749.1
RefSeq Size:	2240 bp
RefSeq ORF:	1425 bp
Locus ID:	55781
UniProt ID:	Q9BVS4
Cytogenetics:	5q15
Protein Families:	Druggable Genome, Protein Kinase
MW:	54.5 kDa
Gene Summary:	<p>Serine/threonine-protein kinase involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in export of the 40S pre-ribosome particles (pre-40S) from the nucleus to the cytoplasm. Its kinase activity is required for the release of NOB1, PNO1 and LTV1 from the late pre-40S and the processing of 18S-E pre-rRNA to the mature 18S rRNA (PubMed:19564402). Regulates the timing of the metaphase-anaphase transition during mitotic progression, and its phosphorylation, most likely by PLK1, regulates this function (PubMed:21880710).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.</p>