

Product datasheet for **RC228393**

RIOK2 (NM_001159749) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RC228393 representing NM_001159749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAAGTGAATGTGGCAAGTTGCGTTACATGAGCCGAGATGACTTCAGGGTCTTGACCCGGTTG
 AAATGGGCATGAAGAACCATGAAATTGTTCCCGCAGTTTGATTGCTTCTATAGCCAGCCTTAAACATGG
 TGGCTGTAATAAAGTTTTAAGAGAATTAGTGAAACATAAACTCATAGCTTGGGAGCGTACAAAACTGTC
 CAGGGCTATCGGTTGACAAATGCAGGATATGATTACCTAGCTTTGAAAACACTTTCTTCTAGGCAAGTAG
 TTGAGTCTGTTGGAAACCAGATGGGTGTTGGCAAAGAATCAGATATTTACATTGTTGCAAAATGAAGAAGG
 ACAACAATTTGCATTAAGCTTTCACAGACTAGGAAGAACCTCGTTTCGAAATTTGAAAAACAAACGCGAT
 TATCATAAACATAGGCACAATGTGTCATGGCTATATTTATCTCGTCTCTGCCATGAAGGAATTTGCCT
 ATATGAAGGCATTGTATGAGAGGAAATTTCCAGTTCCAAAGCCAATTGATTACAATCGTCATGCAGTGGT
 CATGGAACCTATAAATGGTTATCCACTATGTCAGATACACCATGTTGAAGATCCTGCATCAGTATATGAT
 GAAGCTATGGAACATAATTGTCAAACCTGCAAAATCATGGGCTGATTCATGGAGATTTAATGAATTTAATC
 TCATTTTGGATGAAAGTGACCATATCACCATGATTGATTTTCCACAGATGGTTTCAACTTCTCATCCCAA
 TGCTGAGTGGTATTTTGACAGAGATGTTAAATGCATTAAGATTTCTTTATGAAACGTTTTCAGCTACGAA
 AGTGAGCTTTTTCCAACTTTTAAGGATATCAGGAGAGAAGACACTCTTGATGTGGAGGTTTCTGCCAGTG
 GCTACACAAAGGAAATGCAGGCAGATGATGAACTGCTTCCATTAGGTCCAGATGATAAAAAATTTGA
 AACAAAAGAGGGATCTGAATTCATTTTCAGATGGAGAAGTGGCAGAAAAAGCAGAGGTTTACGGGTCA
 GAAAATGAAAGTGAACGGAACCTGTCTAGAAGAATCAGAGGGCTGCTATTGCAGATCATCTGGAGACCCTG
 AACAAATAAAGGAAGACAGTTTATCAGAAGAGAGTGTGATGCACGGAGTTTTGAAATGACTGAATTCAG
 TCAAGCTTTAGAAGAAATAAAAGGGCAGGTTGTTGAAAACAACCTGTAACCTGAATTTTCTGAGGAGAAA
 AACAGAACTGAAAATTACAACAGGCAAGATGGTCAGAGAGTTCAAGGAGGAGTCCCTGCTGGCTCTGACG
 AGTATGAAGATGAATGCCCTCATCTAATTGCCTTGTGTCATTAAATAGAGAATTCAGGCCTTTCAGGTA
 TAGACTTCTGTCGATTGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228393 representing NM_001159749
 Red=Cloning site Green=Tags(s)

MGKVNVAKLRYMSRDDRVLTAVEMGMKNHEIVPGSLIASIASLKHGGCNKVLRELVKHKLIAWERTKTV
 QGYRLTNAGYDYLALKTLSSRQVVESVGNQMGVKGESDIYIVANEEQQFALKLHRLGRTSFRNLKNKRD
 YHKHRHNVSWLYLSRLSAMKEFAVMKALYERKFPVPKPIDYNRHAVVMELINGYPLCQIHHVEDPASVYD
 EAMELIVKLANHGLIHGDFNEFNLI LDESDHITMIDFPQMVSTSHPNAEWYFDRDVKCIKDFFMKRF SYE
 SELFPTFKDIRREDTLDVEVSASGYTKEMQADDELLHPLGPDDKNIETKEGSEFSFSDGEVAEKA EYVGS
 ENESERNCLEESEGCYCRSSGDPEQIKEDSLSEESADARSFEMTEFNQALEEIKGQVVENNSVTEFSEEK
 NR TENYNRQDQQRVQGGVPA GSDEYEDECPHLIALSSLNREFRPFPRYRLLSIAF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_c10.zip

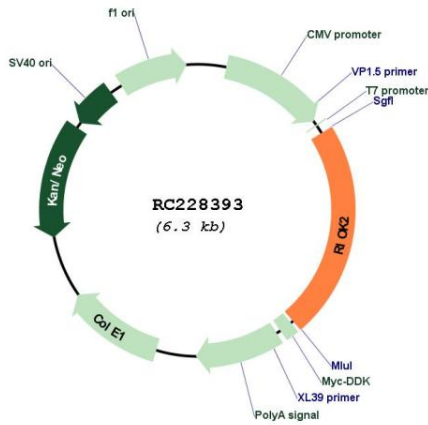
Restriction Sites:

Sgfl-Mlul

MW: 54.3 kDa

Gene Summary: 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]

Product images:



Circular map for RC228393