

## Product datasheet for MR204785

### Riok1 (BC002158) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Riok1 (BC002158) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Riok1
Synonyms:	3110046C13Rik, Ad034, MGC7300
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204785 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAGGACGTGGGCAGAGAAGGAGATGAGGAATTTGTGCAGGCTAAAAACAGCAAACATACCATGTC  
CAGAACCAATCAGGCTAAGAAGTCATGTTCTTCTCATGGGCTTCATTGGCAAGGATGACATGCCAGCCCC  
ACTTTTGAAAAATGTCCAGCTGTCAGAGTCCAAGGCACGGGAGTTGTACCTGCAGGTCATTTCAGTACATG  
AGGAAAAATGTATCAGGATGCTAGACTTGTCCACGCGGATCTCAGTGAATCAACATGCTGTACCATGGTG  
GAGATGTTTACATCATTGATGTTTCTCAGTCTGTGGAGCATGACCACCCACATGCATTGGAGTTCTTGAG  
AAAAGACTGTACCAATGTCAATGATTTCTTTTCCAAGCATGCTGTTGCAGTGATGACCGTGCGGGAGCTC  
TTCGACTTCGTCACAGATCCCTCCATCACTGCTGACAACATGGATGCTTACCTGGAAAAGGCTATGGAAA  
TAGCATCCAGAGGACCAAGGAAGAAAAGACTAGCCAAGATCATGTGGATGAAGAGGTGTTCAAACAAGC  
ATATATCCCAGAACCTTAAACGAAGTAAAGAATTATGAGAGAGATGTGGACATCATGATGAGGTTAAAG  
GAAGAAGACATGGCTTTGAACACTCAGCAAGACAACATTCTATACCAGACTGTATGGGATTGAAAAAAG  
ATTTGTCAGGAGTCCAGAAGGTCCCCGCGCTCTAGAAAGTGAAGTTAAGGAAGAGACTTGTTTTGGTTC  
AGACGATGCTGGGGCTCTGAGTGCTCCGACACAGTCTCTGAAGAGCAGGAAGATCAAGCCGGATGCAGA  
AACCATATTGCTGACCCCGACGTTGATAAAAAGGAAAGAAAAAAGATGGTCAAGGAAGCCAGAGAGAGA  
AGAGAAAAAATAAAATCCCTAAACATGTGAAAAAAGAAAGAAAAAACAGCCAAGGCCAAAAAAGGCCAA  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204785 protein sequence  
Red=Cloning site Green=Tags(s)

MVRTWAEKEMRNLCRLKTANIPCPEPIRLRSHVLLMGFIGKDDMPAPLLKNVQLSESKARELYLQVIQYM  
 RKMYQDARLVHADLSEFNMLYHGGDVYIIDVSQSVEHDHPHALEFLRKDCTNVNDFFSKHAVAVMTVREL  
 FDFVTDPSITADNMDAYLEKAMEIASQRTKEEKTSDQHVDEEVFKQAYIPRTLNEVKNYERDVIDMMRLK  
 EEDMALNTQQDNILYQTVMGLKKDL SGVQKVPALLESEVKEETCFGSDDAGGSECSDTVSEEQEDQAGCR  
 NHIADPDVDKKERKKMVKEAQREKRKNKIPKHVKKRKEKTAKAKKGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC002158

**ORF Size:** 981 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:** [BC002158](#), [AAH02158](#)

**RefSeq Size:** 1712 bp

**RefSeq ORF:** 983 bp

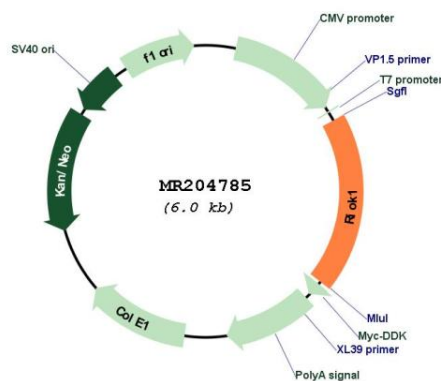
**Locus ID:** 71340

**Cytogenetics:** 13 A3.3

**MW:** 37.8 kDa

**Gene Summary:** This gene encodes a member of the RIO family of atypical serine protein kinases. A similar protein in humans is a component of the protein arginine methyltransferase 5 complex that specifically recruits the RNA-binding protein nucleolin as a methylation substrate. [provided by RefSeq, Feb 2011]

## Product images:



Circular map for MR204785