

Product datasheet for **MG204785**

Riok1 (BC002158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Riok1 (BC002158) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Riok1
Synonyms:	3110046C13Rik, Ad034, MGC7300
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204785 representing BC002158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAGGACGTGGGCAGAGAAGGAGATGAGGAATTTGTGCAGGCTAAAAACAGCAAACATACCATGTC
CAGAACCAATCAGGCTAAGAAGTCATGTTCTTCTCATGGGCTTCATTGGCAAGGATGACATGCCAGCCCC
ACTTTTAAAAATGTCCAGCTGTCAGAGTCCAAGGCACGGGAGTTGTACCTGCAGGTCATTCAAGTACATG
AGGAAAAATGTATCAGGATGCTAGACTTGTCCACGCGGATCTCAGTGAATCAACATGCTGTACCATGGTG
GAGATGTTTACATCATTGATGTTTCTCAGTCTGTGGAGCATGACCACCCACATGCATTGGAGTTCTTGAG
AAAAGACTGTACCAATGTCAATGATTTCTTTTCCAAGCATGCTGTTGCAGTGATGACCGTGGGGAGCTC
TTCGACTTCGTCACAGATCCCTCCATCACTGCTGACAACATGGATGCTTACCTGGAAAAGCTATGGAAA
TAGCATCCAGAGGACCAAGGAAGAAAAGACTAGCCAAGATCATGTGGATGAAGAGGTGTTCAAACAAGC
ATATATCCCAGAACCTTAAACGAAGTAAAGAATTATGAGAGAGATGTGGACATCATGATGAGGTTAAAG
GAAGAAGACATGGCTTTGAACACTCAGCAAGACAACATTCTATACCAGACTGTATGGGATTGAAAAAG
ATTTGTCAGGAGTCCAGAAGGTCCCCGCGCTCTAGAAAGTGAAGTTAAGGAAGAGACTTGTTTTGGTTC
AGCGATGCTGGGGGCTCTGAGTGTCTCCGACACAGTCTCTGAAGAGCAGGAAGATCAAGCCGGATGCAGA
AACCATATTGTGACCCCGACGTTGATAAAAAGGAAAGAAAAAAGATGGTCAAGGAAGCCAGAGAGAGA
AGAGAAAAAATAAAATCCCTAAACATGTGAAAAAAGAAAGAAAAAACAGCCAAGGCCAAAAAAGGCCAA
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204785 representing BC002158
 Red=Cloning site Green=Tags(s)

MVRTWAEKEMRNLCRLKTANIPCEPIRLRSHVLLMGFIGKDDMPAPLLKNVQLSESKARELYLQVIQYM
 RKMYQDARLVHADLSEFNMLYHGGDVYIIDVSQSVEHDHPHALEFLRKDCTNVNDFFSKHAVAVMTVREL
 FDFVTDPSITADNMDAYLEKAMEIASQRTKEEKTSDQHVDEEVFKQAYIPRTLNEVKNYERDVIDIMMLRK
 EEDMALNTQQDNILYQTVMGLKKDL SGVQKVPALLESEVKEETCFGSDDAGGSECSDTVSEEQEDQAGCR
 NHIADPDVDKKERKMMVKEAQREKRKNKIPKHVKKRKEKTAKAKKGGK

TRTRPLE - GFP Tag - V

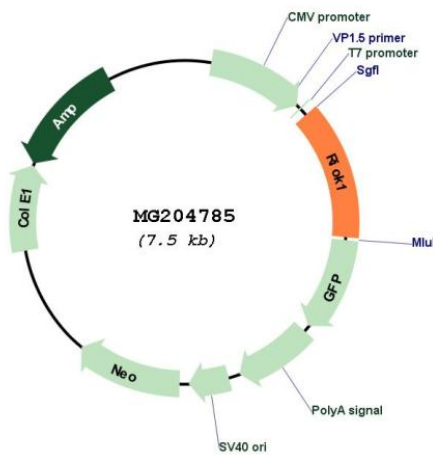
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC002158

ORF Size: 983 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:	<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:	BC002158 , AAH02158
RefSeq Size:	1712 bp
RefSeq ORF:	983 bp
Locus ID:	71340
Cytogenetics:	13 A3.3
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]