

Product datasheet for **MG218227**

Riok1 (NM_024242) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Riok1 (NM_024242) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Riok1
Synonyms:	3110046C13Rik; 5430416A05Rik; Ad034
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218227 representing NM_024242
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTGCAGTCTGGACAGGATGGCTTCGGTGGTCCCCGGCAATTTGACGACGCGGATTCCTCAGACA
 GTGAAAACAAAGAACTGCAGCCAATCCATGCAGAAGATGGCGCGTTCTACTTAAAAGCCTCCAGAATGC
 TGACGACAGAGGTGAAGGGCGACGCTGAGACCGATGAGGAAGACGACTATGATGATGATGATTGGTAC
 TTGGACGATGCAACTGAAAACTACCAAGGGTTGTACCTGGAATGGCGGACGTAAGTATCAGGCAAACC
 GACAGACTTCTAACTACAATTCAGCCAAAATGTCTACTCCAATTGACAAGTCCTTGCGAAAAATTTGAAAA
 TAAAATCAATCTAAATAAGCTGAATGTTACTGATTCTGTGACAAAATAAGTCACCGTAAAATTTGAGACAA
 AAGGAAGCAGAATCGATCGAATTAAGATAAGGCCGACAGCAACCGTAGAACAGGTTTTGGATCCCA
 GAACAAGGATGATTTTATCAAGTTGTTGCATAAAGACCACATATCAGAGATACATGGCTGTATTAGCAC
 TGGAAAAGAAGCTAATGTATACTATGCTAGCACACCCAGTGGAGAGAGCAGAGCAATCAAAATATACAAA
 ACTTCTATTTTGTGTTCAAAGATCGTGATAAGTATGTGACTGGGGAATTCAGGTTCCGGCGTGGCTATT
 GTAAGGAAACCCCTAGGAAAATGGTGAGGACGTGGGCAGAGAAGGAGATGAGGAATTTGTGCAGGCTAAA
 AACAGCAAACATACCATGTCCAGAACCAATCAGGCTAAGAAGTCATGTTCTTCTCATGGGCTTCATTGGC
 AAGGATGACATGCCAGCCCCACTTTTAAAAATGTCCAGCTGTCAGAGTCCAAGGCACGGGAGTTGTACC
 TGCAGGTCATTACGTACATGAGGAAAATGTATCAGGACGCTAGACTTGTCCACGCGGATCTCAGTGAATT
 CAACATGCTGTACCATGGTGGAGATGTTACATCATTGATGTTTCTCAGTCTGTGGAGCATGACCACCCA
 CATGCATTTGGAGTCTTGAGAAAAGACTGTACCAATGTCAATGATTTCTTTTCCAAGCATGCTGTTGCAG
 TGATGACCGTGGGGAGCTCTTCGACTTCGTACAGATCCCTCCATCACTGTCACAACATGGATGCTTA
 CCTGAAAAGGCTATGGAATAGCATCCAGAGGACCAAGGAAGAAAAGACTAGCCAAGATCATGTGGAT
 GAAGAGGTGTTCAAACAAGCATATATCCAGAACCTTAAACGAAGTAAAGAATTATGAGAGAGATGTGG
 ACATCATGATGAGGTTAAAGGAAGAAGACATGGCTTTGAACACTCAGCAAGACAACATTCTATACCAGAC
 TGTCTATGGGATTGAAAAAAGATTTGTCAGGAGTCCAGAAGGTCCCCGCGCTCCTAGAAAAGTGAAGTTAAG
 GAAGAGACTTGTGTTGTTGTCAGACGATGCTGGGGCTCTGAGTCTCCGACACAGTCTCTGAAGAGCAGG
 AAGATCAAGCCGGATGCAGAAACCATATTGCTGACCCTGACATTGATAAAAAGGAAAGAAAAAAGATGGT
 CAAGGAAGCCCAGAGAGAGAAGAGAAAAAATAAAATCCCTAAACATGTGAAAAAAGAAAGAAAAACA
 GCCAAGGCCAAAAAAGGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218227 representing NM_024242
 Red=Cloning site Green=Tags(s)

MDCSLDRMASVVPQGFDADSSDSENKELQPIHAEDGGVLLKSLQNAAAEVKGDAETDEEDDYDDDDWY
 LDDATGKLTGCTWNGGSNYQANRQTSNYNSAKMSTPIDKSLRKFENKINLKNLNVTDVNTKVTVKLRQ
 KEAESYRIKDKADRATVEQVLDPRTRMILFKLLHKDHISEIHGCI STGKEANVYYASTPSGESRAIKIYK
 TSILMFKDRDKYVTGEFRFRGYCKGNPRKMVRTWAEKEMRNL CRLKTANIPCPEPIRLRSHVLLMGFIG
 KDDMPAPLLKNVQLSESKARELYLQVIQYMRKMYQDARLVHADLSEFNMLYHGGDYYIIDVSQSVEHDHP
 HALEFLRKDCTNVNDFFSKHAVAVMTVRELFDFVTDPSITADNMDAYLEKAMEIASQRTKEEKT SQDHVD
 EEVFKQAYIPRTLNEVKNYERDVIDMRLKEEDMALNTQQDNILYQTMGLKKDL SGVQKVPALLESEVK
 EETCFGSDDAGGSECSDTVSEEQEDQAGCRNHIADPDIDKKERKKMVKEAQREKRKNKIPKHVKKRKEKT
 AKAKKGG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_024242

ORF Size: 1701 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: [NM_024242.3](#), [NP_077204.2](#)

RefSeq Size: 2744 bp

RefSeq ORF: 1704 bp

Locus ID: 71340

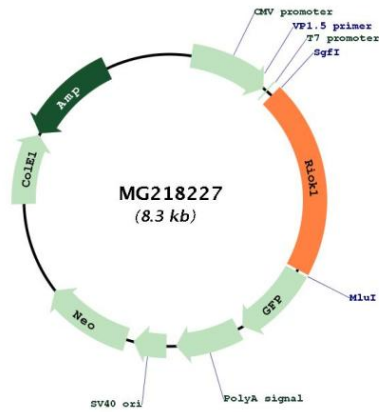
UniProt ID: [Q922Q2](#)

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]

Product images:



Circular map for MG218227