

## Product datasheet for **MR210946**

### Rin2 (NM\_028724) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rin2 (NM_028724) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rin2
Synonyms:	2010003K16Rik; 4632403N06Rik; AW821980; RASSF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210946 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACCCATTTTGCATTCTCAGCATGGTGAGACACAAGGATGGTGGCTACTCTGAAGACAAGGATGGGA  
 AGACATGTCCCGAGACTCTGGCTATGACAGCCTCTCAAACAGGCTCAGCATTCTGGACCGCTCCTGCA  
 TACCCATCCCATATGGCTGCAGCTGAGTCTGAGTGAGGAGGAGGAGCAGAGGTCCTGCAGGCCAGCCT  
 CCAGGGATCTTTTTGGTTCGAAATCCTCCAAAATGCAGAAGAAAGTCTCTCCCTTCGCTGCCCTGTG  
 AATTTGGAGCACCTCTCAAAGAGTTTACTATAAAGGAAAGCACCTACACCTTTTCCCTGGAAGGCTCAGG  
 AATCAGCTTTGCAGATTTATTCCGGCTTATTGCCTTCTACTGCATCAGCAGGGACGTTTTGCCATTACC  
 TTGAAGCTGCCTATGCCATTTCAACAGCCAAGACGGAGTCTCAGCTTGAAGAACTAGCCCAGCTGGGAC  
 TAAATTTTTGGAGCTCCTCAGCAGACAACAACCCCGAACTCCCACCTCCCATAGGCCCTTCCCTC  
 AGCCGGCATCTGCCCTGCCTCCTTGCCTCAGCTCTGCCTTATAAATGGAGTGCATTCTATAAAAACCAGG  
 ACGCCTTCGGAGCTGGAGTGCAGCCAGACCAACGGAGCCTTGTGTTTTATAATCCTCTTTTCTTGAAG  
 TGCACAGCCAGGACCTCAGCACAGGCCAAAGCGGCCAGCACAAAGGACTCCCAACCGCAATGGCACCGA  
 GAGACCTCGGTCCCCCACCAGGCCCGCCACCCGCTATTAATAGTCTGCACACAAGCCTGGGCTA  
 TCCAGGACTGAACCCAGACGAGCATGCCAGAAACAGTCAACCATAGCAAACATGGGAACGTAGCTCTGC  
 TTGGAACAAAACCAACTCCCATCCCTCCACCCGGCTGAAGAAGCAGGCTCTTTTTTGGAAAGCAGAAA  
 CAGCGCAAGACCTTGACTGCCCGCCGGCCAGCCGGAGCTCGGAGCCGGAGCCGAGCTAGAGCTGGAG  
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 CGCCGCCCGCCGGCTCTGAATCACAAACCACCGTGCCATGGAGCCAGCAGAGGCTGAGCGCATGAG  
 CCTTTCCACTTCTCCTCCGACTCGCTGGAGTTGACCCGGAGCATGCCTCTGTATGGGTACGAGGCCGAC  
 ACCACCAGCAGCCTGGAGGACTACGAAGGGGAGAGTGACCAAGAGACCATGGCACCTCCCATCAAGTCCA  
 AAAAGAAGAGGAACAGCTCTTTTGTGCTGCCAAGCTTGTCAAGTCCCAGTTGCGAAAGATGAGCGGGT  
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 ACCTATTTTGGGTGCTTGGTGCAGGACTACGTGAGCTTCTGAAGGAGAACAAGGAGTGCATGTGTCCA  
 GCACCGATATGCTGCAGACCATCCGGCAGTTTATGACCCAGGTCAAGAACTATTTGTCTCAGAGCTCTGA  
 ACTGGACCCCTATTGAGTCACTGATCCAGAAGACCAATTTGATGTGGTGTGGAGAAGGCCATGCAC  
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 CGTGGAACAACCTCAAGGAAAACCTACAACCTCGTGCAGGAGGAAACCCACAGGAGCTGGGGTCTTTGC  
 CCCAACCCCTGACTTGATGGAGCTGGAGAAAATCAAGCTTAAATTCATGACCATGCAGAAGATGATTTCG  
 CCAGAAAAGAAAGTATGCTTTTGTACGGTCTGTAAGCTCATCTACACTGTCTAGGAGAACAACCTCAG  
 GGAGGATGTACGGTGCAGACGACTTCTTCCAGTCTGACCTATGTCATAGCTCAGTGTGACATGCTTGA  
 ACTGGACACGAAATCGAGTACATGATGGAACCTCTGGACCCATCACTGCTGCACGGAGAAGGAGGCTAT  
 TACTTGACCAGTGCCTATGGGGCGCTATCTCTGATAAAGAATTTCCAAGAAGAACAGGCTGCGAGACTGC  
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 CGTTGACGACTTTCAGAATTACCTCCGAGTTGCCTTCCAAGAGTCAACAGCGGATGCACCTGGGAAGACC  
 CTCTTGTGAGACCGTACATCACACAGAGGATGTGTGTCAGCTCTGTGCTGAGAAGTTTAAAGTGGAGG  
 ACCCTGAAGAGTACAGCCTGTTTCTTTTGTGATGAGACATGGCAACAACCTGGCAGAGGACACTTATCC  
 TCAGAAGATCAAGGCTGAACTGCACAGCCGCTCAGCCCCACATCTTCCACTTTGTCTACAAAACGAATC  
 AAGAGTGATCCTTACGGGTGATTTTCCAGAATGGAGAAGACCTCACTCCCTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210946 protein sequence  
 Red=Cloning site Green=Tags(s)

MDPFCILSMVRHKDGGYSEDKDKTCPRDSGYDSLNRLSILDRLHHTPIWLQLSLEEEAAEVLQAQP  
 PGIFLVRKSSKMQKVLRLPCEFGAPLKEFTIKESTYTFSLGSGISFADLFRLIAFYCISRDLVLPFT  
 LKLPYAISTAKTESQLEELAQLGLNFWSSADNKPPNSPPPHRPLPSAGICPASLRQLCLINGVHSIKTR  
 TPSELECSQTNGALCFINPLFLKVHSQLSTGPKRSTRTPNANGTERPRSPPPRPPPPAINSLHTSPGL  
 SRTEPQTSMPETVNHSHKGNVALLGTKPTPIPPRLKKQASFLEASSAKTLTARRPSRSSEPEPELELE  
 LEMGTAGHAGGAPRDAPGDCTRAPPGSESQPPCHGARQRLSDMSLSTSSSDSLEFDRSMPLYGYEAD  
 TTSSLEDYEGESDQETMAPPISKKKRNSFVLPKLVKSQLRKMSGVFSFMTPEKRMVRRIAELSRDKC  
 TYFGCLVQDYVSFLKENKECHVSSDMLQTIHQFMTQVKNYLSQSSLEDPPIESLIPEDQIDVVLEKAMH  
 KCILKPLKGHVEAMLKDFHTADGSWKQLKENLQLVQRNPQELGVFAPTPDLMELEKIKLFMTMQKMSY  
 PEKKVMLLLRVCKLIYVMENNSGRMYGADDFLPVLYVIAQCDMLELDEIEYMMELLDPSSLHGEGGY  
 YLTSAYGALSLIKNFQEEQAARLLSSEARDTLRQWHKRRTTNRTIPSVDDFQNYLRVAFQEVNSGCTGKT  
 LLVRPYITTEDVCQLCAEKFKVEDPEEYSLFLFVDETWQQLAEDTYPQKIKAEHLSRPQPHIFHFVYKRI  
 KSDPYGVIFQNGEDLTPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

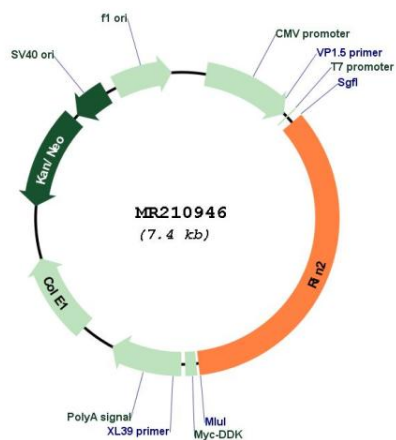
Sgfl-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_028724
<b>ORF Size:</b>	2577 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028724.3</a>
<b>RefSeq Size:</b>	4668 bp
<b>RefSeq ORF:</b>	2577 bp
<b>Locus ID:</b>	74030
<b>UniProt ID:</b>	<a href="#">Q9D684</a>
<b>Cytogenetics:</b>	2 G1
<b>MW:</b>	96.5 kDa
<b>Gene Summary:</b>	Ras effector protein. May function as an upstream activator and/or downstream effector for RAB5B in endocytic pathway. May function as a guanine nucleotide exchange (GEF) of RAB5B, required for activating the RAB5 proteins by exchanging bound GDP for free GTP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210946