

Product datasheet for **MG207404**

Rin2 (BC005529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rin2 (BC005529) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rin2
Synonyms:	2010003K16Rik, RASSF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207404 representing BC005529
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTTTCCACTTCCTCCTCCGACTCGCTGGAGTTTCGACCGGAGCATGCCTCTGTATGGGTACGAGG
 CTGACACCACCAGCAGCCTGGAGGACTACGAAGGGGAGAGTGACCAAGAGACCATGGCACCTCCCATCAA
 GTCCAAAAAGAAGAGGAACAGCTCTTTTGTGCTGCCCAAGCTTGCAAGTCCAGTTGCGAAAGATGAGC
 GGGGTGTTGAGCTCCTTCATGACCCCTGAGAAGCGGATGGTCCGAGGATCGCCGAGCTGTCCCGGACA
 AATGCACCTATTTGGGTGCTTGGTGCAGGACTACGTGAGCTTCTGAAGGAGAACAAAGGAGTGCCATGT
 GTCCAGCACCGATATGCTGCAGACCATCCGGCAGTTTATGACCCAGGTCAAGAACTATTTGTCTCAGAGC
 TCTGAAGTGGACCCCTATTGAGTCACTGATCCAGAAGACCAATTGATGTGGTGTGGAGAAGGCCA
 TGCACAAATGTATCTTGAAGCCCTCAAGGGCCATGTGGAGGCCATGCTGAAGGACTTCCACACGGCTGA
 CGGCTCGTGGAACAACCAAGGAAAACCTACAACCTCGTCCGGCAGAGGAACCCACAGGAGCTGGGGGTC
 TTTGCCCAACCCCTGACTTGATGGAGCTGGAGAAAATCAAGCTTAAATTCATGACCATGCAGAAGATGT
 ATTCGCCAGAAAAGAAAGTCATGCTTTTGTACGGGTCTGTAAGCTCATCTACACTGTCTGGAAGACAA
 CTCAGGGAGGATGTACGGTGCAGACGACTTCTTGCCAGTCCTGACCTATGTCTAGCTCAGTGTGACATG
 CTTGAAGTGGACACGGAATCGAGTACATGATGGAACCTCTGGACCCATCACTGCTGCACGGAGAAGGAG
 GCTATTACTTGACCAAGTGCCTATGGGGCGCTATCTCTGATAAAGAATTTCCAAGAAGAACAGGCTGCGAG
 ACTGCTCAGCTCCGAAGCCAGGGACACGCTGAGGCAGTGGCACAAGCGGAGAACCAACCGAACTATC
 CCCTCCGTTGACGACTTTCAGAAATACCTCCGAGTTGCCTTCAAGAGGTCAACAGCGGATGCACTGGGA
 AGACCCCTCTGTGAGACCGTACATCACCACAGAGGATGTGTGTCAGCTCTGTGCTGAGAAATTTAAGGT
 GGAGGACCTGAAGAGTACAGCCTGTTTCTCTTTGTTGATGAGACATGGCAACAACCTGGCAGAGGACACT
 TATCCTCAGAAGATCAAGGCCGAAGTGCACAGCCGGCCTCAGCCCCACATCTTCACTTTGTCTACAAAC
 GAATCAAGAGTGATCCTTACGGGTGATTTTCCAGAATGGAGAAGACCTCACTCCCTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207404 representing BC005529
 Red=Cloning site Green=Tags(s)

MSLSTSSSDSLEFDRSMPLYGYEADTTSSLEDYEGESDQETMAPPIKSKKKRNSSFVLPKLVKSQRLKMS
 GVFFSFMTPKRMVRRIAELSRDKCTYFGCLVQDYVSFLKENKECHVSSTDMLQIRQFMTQVKNYLSQS
 SELDPPIESLIPEDQIDVVLEKAMHKCILKPLKGHVEAMLKDFHTADGSWKQLKENLQLVRQRNPQELGV
 FAPTPDLMELEKIKLFMTMQKMYSPKVKMLLLRVCKLIYTMENNSGRMYGADDFLPVLTYYVIAQCDM
 LELDTEIEYMMELLDPSLLHGEAGGYLTSAYGALSILKNFQEEQAARLLSSEARDTLRQWHKRRITNRTI
 PSVDDFQNYLRVAFQEVNSGCTGKTLVRPYITTEDVCQLCAEFKVEDPEEYSLFLFVDETWQQLAEDT
 YPQKIKAEHLSRPQPHIFHFVYKRIKSDPYGVIFQNGEDLTPS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

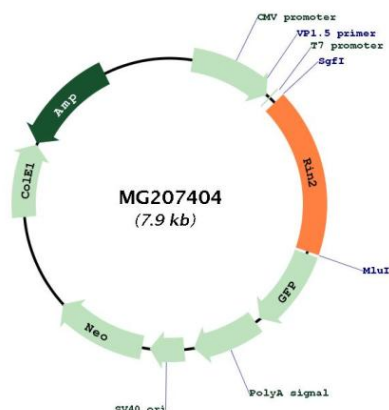
Cloning Scheme:


ACCN:	BC005529
ORF Size:	1389 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC005529 , AAH05529
RefSeq Size:	3118 bp
RefSeq ORF:	1391 bp
Locus ID:	74030

Cytogenetics: 2 G1

Gene Summary: 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 MG207404