

Product datasheet for **RG238744**

RIC8 (RIC8A) (NM_001286134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIC8 (RIC8A) (NM_001286134) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIC8A
Synonyms:	RIC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238744 representing NM_001286134.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGCCCCGGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGG
TCATACAACCAGGAGCACTCCAGAGCTTACGTTTGTATGATGCCAACAGGAGACCAGGAAGAGACTG
CGGGAGCTGCTGGTCTCCGTCTCGGAACAGGGCTTGCCACCCTCCACCCTGTCTCTGGCTGCAGAGT
GTCCGAATCCTGTCCCGGACCGCAACTGCCTGGACCCGTTACCAGCCGCCAGAGCCTGCAGGCACTA
GCCTGCTATGCTGACATCTCTGTCTCTGAGGGTCCGTCCAGAGTCCGCAGACATGGATGTTGTACTG
GAGTCCCTCAAGTGCCTGTGCAACCTCGTCTCAGCAGCCCTGTGGCACAGATGCTGGCAGCAGAGGCC
CGCCTAGTGGTGAAGCTCACAGAGCGTGTGGGGCTGTACCGTGAGAGGAGCTTCCCCACGATGTCCAG
TTCTTTGACTTGGGCTCCTCTTCTGCTAACGGCACTCCGCACCGATGTGCGCCAGCAGCTGTTTCAG
GAGCTGAAAGGAGTGCCTGCTAACTGACACACTGGAGCTGACGCTGGGGTGACTCCTGAAGGGAAC
CCCCACCCACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGTCTTCAAC
ATACCCTGGACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTACCAGACCTGGGGACC
TTCTCCGGCACTGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGATTCACGGCCACGCAGTG
AACCTCCTGGGAACTTGCCCTCAAGTGTCTGGATGTTCTCCTACCCTGGAGCCACATGGAGACTCC
ACGGAGTTCATGGGAGTGAATATGGATGTGATTCGTGCCCTCCTCATCTTCTAGAGAAGCGTTGCAC
AAGACACACAGGCTGAAGGAGAGTGTAGCTCCCGTGTGAGCGTGTGACTGAATGTGCCGGATGCAC
CGCCAGCCAGGAAGTTCCTGAAGGCCAGGTGCTGCCCTCTGCGGGATGTGAGGACACGGCCTGAG
GTTGGGAGATGCTGCGGAACAAGCTTGTCCGCTCATGACACACCTGGACACAGATGTGAAGAGGGTG
GCTCCGAGTTCCTGTTGCTCTGTGCTCTGAGAGTGTGCCCGATTCAAGTACACAGGCTATGGG
AATGCTGCTGGCCTTCTGGCTGCCAGGGCCTCATGGCAGGAGGCCGCCGAGGCGCCAGTACTCAGAG
GATGAGGACACAGACACAGATGAGTACAAGGAAGCCAAAGCCAGCATAAACCCCTGTGACCGGGAGGGTG
GAGGAGAAGCCGCTAACCTATGGAGGCATGACAGAGGAGCAGAAGGAGCAGAGGCCATGAAGCTG
GTGACCATGTTTGACAAGCTCTCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCCGGGTCAT
CTTACGTCCTGCAGGATGCCATGTGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCCTGACTCGGAC
CCTGAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238744
 Blue=ORF Red=Cloning site Green=Tag(s)

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MEPRAVAEAVETGEEDVIMEALRSYNQEHSSQSFDFDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQS
VRILSRDRNCLDPFTSRQSLQALACYADISVSEGSVPESADMDVVLESLKCLCNLVLSSPVAQMLAAEA
RLVVKLTERVGLYRERSFPHDVQFFDLRLLFLLTALRTDVRQQLFQELKGVRLTDTLELTLGVTPEGN
PPPTLLPSQETERAMEILKVLFNITLDSIKGEVDEEDAALYRHLGTLRHCVMIAATAGDRTEEFHGHAV
NLLGNLPLKCLDVLLTLEPHGDSTEFMGVNMVDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMH
RPARKFLKAQVLPPLRDVTRPEVGEMLRNKLVRLMTHLDTDKRVAAEFLVLCSESVPRFIKYTYG
NAAGLLAARGLMAGGRPEGQYSEDEDTDEYKEAKASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKL
VTMFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSDPDSDPD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

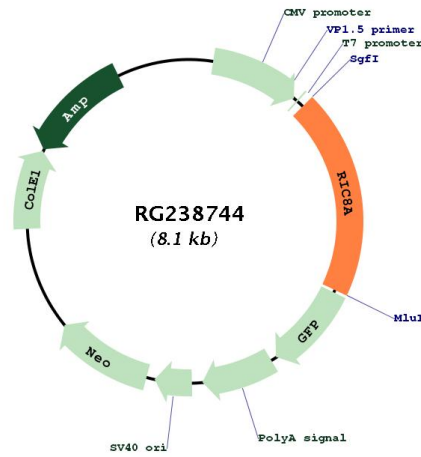
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001286134
ORF Size:	1593 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).
RefSeq:	NM_001286134.1 , NP_001273063.1
RefSeq Size:	3765 bp
RefSeq ORF:	1596 bp
Locus ID:	60626
UniProt ID:	Q9NPQ8
Cytogenetics:	11p15.5
MW:	60.2 kDa
Gene Summary:	Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.[UniProtKB/Swiss-Prot Function]