

Product datasheet for **RC238744**

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:	Myc-DDK
Symbol:	RIC8A
Synonyms:	RIC8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238744 representing NM_001286134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCCGGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTCGCGT
 CATACAACCAGGAGCACTCCAGAGCTTACGTTTGGATGATGCCAACAGGAGGACCGGAAGAGACTGGC
 GGAGCTGCTGGTCTCCGTCCTGGAACAGGGCTTCCACCCTCCACCGTGCATCTGGCTGCAGAGTGT
 CGAATCCTGTCCCGGGACCGCAACTGCCTGGACCCGTTACCAGCCGCCAGAGCCTGCAGGCACTAGCCT
 GCTATGCTGACATCTCTGTCTCTGAGGGGTCCGTCAGAGTCCGAGACATGGATGTTGTACTGGAGTC
 CCTCAAGTGCCTGTGCAACCTCGTCTCAGCAGCCCTGTGGCACAGATGCTGGCAGCAGAGGCCCGCCTA
 GTGGTGAAGCTCACAGAGCGTGTGGGGTGTACCGTGAGAGGAGCTTCCCCACGATGTCCAGTTCTTTG
 ACTTGGCGCTCCTTCTCTGCTAACGGCACTCCGACCGATGTGCCAGCAGCTGTTTCAGGAGCTGAA
 AGGAGTGGCCTGCTAACTGACACACTGGAGCTGACGCTGGGGGTGACTCCTGAAGGGAACCCCCACCC
 ACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTCTCTTCAACATCACCTGG
 ACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTACCAGACCTGGGGACCTTCTCCGGCA
 CTGTGTGATGATCGTACTGCTGGAGACCCACAGAGGAGTCCACGGCCACGCAGTGAACCTCCTGGGG
 AACTTGCCCTCAAGTGTCTGGATGTTCTCCTCACCTGGAGCCACATGGAGACTCCACGGAGTTTATGG
 GAGTGAATATGGATGTGATTCGTGCCCTCCTCATCTTCTAGAGAAGCGTTTGCACAAGACACAGGCT
 GAAGGAGAGTGTAGTCCCGTGTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAG
 TTCTGAAGGCCAGGTGCTGCCCTCTGCGGGATGTGAGGACACGGCTGAGGTTGGGGAGATGCTGC
 GGAACAAGCTTGTCCGCCTCATGACACACTGGACACAGATGTGAAGAGGGTGGCTGCCGAGTTCTTGTT
 TGTCTGTGCTCTGAGAGTGTGCCCGATTTCATCAAGTACACAGGCTATGGGAATGCTGCTGGCCTTCTG
 GCTGCCAGGGCCCTCATGGCAGGAGGCCGGCCGAGGGCCAGTACTCAGAGGATGAGGACACAGACACAG
 ATGAGTACAAGGAAGCCAAAGCCAGCATAAACCTGTGACCGGGAGGGTGGAGGAGAAGCCGCTAACCC
 TATGGAGGGCATGACAGAGGAGCAGAAGGAGCACGAGGCCATGAAGCTGGTGACCATGTTTGACAAGCTC
 TCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCCGGGTGATCTTACGTCCTGCAGGATGCCA
 TGTGCGAGACTATGGAGCAGCAGCTCCTCGGACCCTGACTCGGACCCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238744 representing NM_001286134
 Red=Cloning site Green=Tags(s)

MEPRAVAEAVETGEEDVIMEALRSYNQEHQSFTFDDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQSV
 RILSRDRNCLDPFTSRQSLQALACYADISVSEGSVPESADMDVVLESLKCLCNLVLSSPVAQMLAAEARL
 VVKLTERVGLYRERSFPHDVQFQDLRLLFLLTALRTDVRQQLFQELKGVRLTDTLELTLGVTPEGNPPP
 TLLPSQETERAMEILKVLFNITLDSIKGEVDEEDAALYRHLGTLRHCVMIAATAGDRTEEFHGHAVNLLG
 NLPLKCLDVLLTLEPHGDSTEFMGVNMVDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTFCARMHRPARK
 FLKAQVLPPLRDVVRPEVGEMLRNKLVRLMTHLDTDVKRVAEFLFVLCSESVPRFIKYTYGNAAGLL
 AARGLMAGGRPEQYSEDEDTDDEYKEAKASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLVTFMFDK
 SRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSDPDSDPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

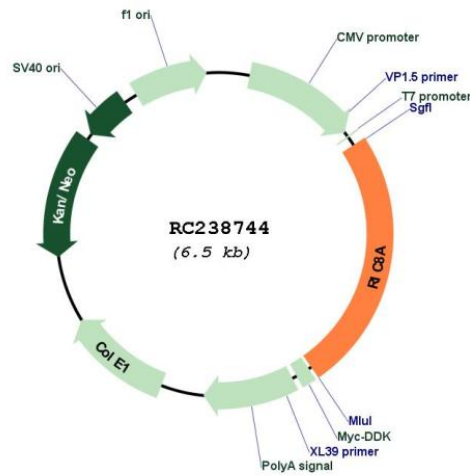
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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).
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:	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]