

Product datasheet for **SC112883**

RIC8 (RIC8A) (NM_021932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIC8 (RIC8A) (NM_021932) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIC8
Synonyms:	RIC8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112883 sequence for NM_021932 edited (data generated by NextGen Sequencing)

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ATGGAGCCCCGGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAA
GCTCTGCGGTATACAACCAGGAGCACTCCCAGAGCTTACGTTTGATGATGCCAACAG
GAGGACCGGAAGAGACTGGCGGAGCTGCTGGTCTCCGCTCCTGGAACAGGGCTTGCCACCC
TCCCACCGTGTACTGTGCTGCAGAGTGTCCGAATCCTGTCCCGGACCGCAACTGCCTG
GACCCGTTACCAAGCCAGAGCTGCAGGCACTAGCCTGCTATGCTGACATCTGTGCT
TCTGAGGGGTCCGTCCCAGAGTCCGAGACATGGATGTTGTAAGTCCCTCAAGTGC
CTGTGCAACCTCGTGCTCAGCAGCCCTGTGGCAGAGATGCTGGCAGCAGAGGCCCGCCTA
GTGGTGAAGCTCACAGAGCGTGTGGGGTGTACCGTGAGAGGAGCTTCCCCACGATGTC
CAGTTCTTTGACTTGGGCTCCTCTTCTGCTAACGGCACTCCGCACCGATGTGCGCCAG
CAGCTGTTTCAGGAGCTGAAAGGAGTGCCTGCTAACTGACACACTGGAGCTGACGCTG
GGGGTACTCCTGAAGGGAACCCCCACCCAGCTCCTTCCCTCCAAGAGACTGAGCGG
GCCATGGAGATCCTCAAAGTGTCTTCAACATCACCTGGACTCCATCAAGGGGGAGGTG
GACGAGGAAGACGCTGCCCTTTACCGACACTGGGGACCTTCTCCGGCACTGTGTGATG
ATCGCTACTGCTGGAGACCGCACAGAGGAGTCCAGGGCCACGCAGTGAACCTCCTGGGG
AACTTGCCCTCAAGTGTCTGGATGTTCTCCTCACCTGGAGCCACATGGAGACTCCACG
GAGTTCATGGGAGTGAATATGGATGTGATTTCGTGCCCTCCTCATCTTCTAGAGAAGCGT
TTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTCCCGTGCTGAGCGTGTGACTGAA
TGTGCCCGGATGCACCGCCAGCCAGGAAGTTCCTGAAGGCCAGGNNNNNNNNNNNNCC
CAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGAGATGCTGCGG
AACAAAGCTTGTCCGCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCTGCCGAG
TTCTTGTCTTGTGCTGCTGCTGAGAGTGTGCCCCGATTCAAGTACACAGGCTATGGG
AATGCTGTGGCCTTCTGGCTGCCAGGGCCTCATGGCAGGAGGCCGGCCGAGGGCCAG
TACTCAGAGGATGAGGACACAGACAGATGAGTACAAGGAAGCCAAAGCCAGCATAAAC
CCTGTGACCGGGAGGGTGGAGGAGAAGCCGCTAACCTATGGAGGGCATGACAGAGGAG
CAGAAGGAGCAGAGGCCATGAAGCTGGTACCATGTTTGACAAGCTCTCCAGGAACAGA
GTCATCCAGCCAATGGGGATGAGTCCCCGGGGTACCTTACGTCCTGCAGGATGCCATG
TGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCTGACTCGGACCTGACTGA
    
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Clone variation with respect to NM_021932.4
 816 c=>g;1067 g=>n;1068 a=>n;1069 t=>n;1070 g=>n;1071 g=>n;1072 c=>n;1073 c=>n;1074 a=>n;1075 c=>n;1076 c=>n;1077 t=>n;1078 c=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021932 unedited

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NAAGTGTCAAATTATGTAATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGAG
GAAGGGCCCGTCCCGCTTCCCCGGCGGCCATGGAGCCCCGGGCGGTTGCAGAAGCCGT
GGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGGTATACAACCAGGAGCACTC
CCAGAGCTTACGTTTGTGATGATGCCAACAGGAGACCGGAAGAGACTGGCGGAGCTGCT
GGTCTCCGTCTGGAACAGGGCTTGCCACCCTCCACCGTGTATCTGGCTGCAGAGTGT
CCGAATCCTGTCCCGGACCGCAACTGCCTGGACCCGTTACCAGCCGCCAGAGCCTGCA
GGCACTAGCCTGTATGCTGACATCTGTCTCTGAGGGTCCGTCAGAGTCCGCAGA
CATGGATGTTGTACTGGAGTCCCTCAAGTGCCTGTGCAACCTCGTCTCAGCAGCCCTGT
GGCACAGATGCTGGCAGCAGAGGCCCGCTAGTGGTGAAGCTCACAGAGCGTGTGGGGCT
GTACCGTGAGAGGAGCTTCCCCACGATGTCCAGTTCTTTGACTTGGCGCTCCTTCTCT
GCTAACGGCACTCCGCACCGATGTGCGCCAGCAGCTGTTTCAGGAGCTGAAAGGAGTGCG
CCTGCTAACTGACACACTGGAGCTGACGCTGGGGTGACTCCTGAAGGGAACCCCCACC
CACGCTCCTTCTTCCAAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGTCTTTCA
CATCACCCCTGGACTCCAATCAAGGGGGAGTGGACGANGAAGACGCTGCCCTTTACCGAC
ACCTGGGGGACCTTCTNNCGCACTGTGTGATGATCGCTACTGCTGGAGACCGCAACNAG
NAGTTCAGGGCCAGCN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021932 unedited CCCGCGGGCCGCAATCTAGNAGTCGAGTTTTTTTTTTTTTTTTTTTGTCCAAAACCTTTCT TTATTTCAAGATGATGTTTCTGTGGCTATGTGTGGTATGTGGTATAAATCTCAATCTATG GTCACACGAGGGGCATTTTCCTTGTGTAAGTGTAGTCTAAACCAGTAGGAAGGAGGTTT AATTGCCAAAACCAGCGAGAAGCTCGGGCACTGTGGATACTACAGTGGGCAGCTGAACGAG GACCAAGGAGAATGTCTAAGAGGCCTCCAGCCCTGCGCTCAGTGAAGACAGGACAGGAAC AACAGAGCATACATACCTTGAAGGGTGTGTTCTGATATACTCGTATGGAAAGTTCTGAC AGGTTTTCTCCCTGGGAAGTGCAGCACATACCCCAACACACTGGCTCTGCCAGTGTGCCA ATCCCAAATGGTCTTGTGTTTGTGTGCACCCACACCCAAACCCCTGCCCTCCCTATGCCCT CTTTGTGTGCCCGGTAGGCCCTCGCCCTATGCTCCACTTTCTGACACATTTCTCTTGC GCCACACCATACAGTTCTTCTCCTTCCGATCTCCCGCTTGCTTCTGTATCTCTCCCC CCCCTATCCCTCCCTCCCCACCTTTCTCCTCTTCTATAGGCCTTCTTCCAAAAC CCTTCCCCTCTTATTAACCGTCCCTATTTCTCCAACCCCGCGCACTTTCTCCCCAC TCCCCCAATTCCCTCCCCCCCCCTTTATCCCTACTTTCCCCTACTCCCCTCTATTTT CACTTCCCGCTCTTTTCTCTCCGTCTCTCATTCTCCCTCCCTCTCNCACCACCA TCCCCCCTTTCCCCTACTATTTTTTCCCACCCACTATCTCCCCCCCCCTCTCCATCT CCACTTCTCCCTCCCTCGTATCGTCACTCCCCTTNTCTCCCTATCCCTTCTCTACTACA TCATTTGTATATCTCCCCCTCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_021932
Insert Size:	2560 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_021932.4</u> , <u>NP_068751.4</u>
RefSeq Size:	2714 bp
RefSeq ORF:	1614 bp
Locus ID:	60626
UniProt ID:	<u>Q9NPQ8</u>
Cytogenetics:	11p15.5

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.