

Product datasheet for SC310410

RCC1 (NM_001269) Human Untagged Clone


Product data:

Product Type:	Expression Plasmids
Product Name:	RCC1 (NM_001269) Human Untagged Clone
Tag:	Tag Free
Symbol:	RCC1
Synonyms:	CHC1; RCC1-I; SNHG3-RCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310410 representing NM_001269. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTCACCCAAGCGCATAGCTAAAAGAAGGTCCCCCAGCAGATGCCATCCCCAAAAGCAAGAAGGTG
AAGGTCTCACACAGGTCCACAGCACAGAACCCGGCTTGGTGCTGACACTAGGCCAGGGCGACGTGGGC
CAGCTGGGGCTGGGTGAGAATGTGATGGAGAGGAAGAAGCCGGCCCTGGTATCCATTCGGAGGATGTT
GTGCAGGCTGAGGCTGGGGCATGCACACCGTGTGTCTAAGCAAAGTGGCCAGGTCTATTCCTTCGGC
TGCAATGATGAGGCTGCCCTGGGAAGGGACACATCAGTGGAGGGCTCGGAGATGGTCCCTGGGAAAGTG
GAGCTGCAAGAGAAGGTGTTACAGGTGTCAGCAGGAGACAGTACACAGCAGCCCTCACCGATGATGGC
CGTGTCTTCTCTGGGGCTCCTTCGGGACAATAACGGTGTGATTGGACTGTTGGAGCCCATGAAGAAG
AGCATGGTGCCTGTGCAGGTGCAGCTGGATGTGCCTGTGGTAAAGGTGGCCTCAGGAAACGACCACTTG
GTGATGCTGACAGCTGATGGTGACCTCTACACCTTGGGCTGCGGGGAACAGGGCCAGCTAGGCCGTGTG
CCTGAGTTATTTGCCAACCGTGGTGGCCGGCAAGGCCCTCGAACGACTCCTGGTCCCCAAGTGTGTGATG
CTGAAATCCAGGGGAAGCCGGGGCCACGTGAGATTCCAGGATGCCTTTTGTGGTGCCTATTTACCTTT
GCCATCTCCCATGAGGGCCACGTGTACGGCTTCGGCCTCTCCAACCTACCATCAGTTGGAACCTCCGGGC
ACAGAATCTTGCTTCATACCCAGAACCTAACATCCTTCAAGAATTCCACCAAGTCTGGTGGGCTTC
TCTGGTGGCCAGCACCATACAGTCTGCATGGATTGCGAAGGAAAAGCATACAGCTGGGCGGGCTGAG
TATGGGCGGCTGGGCCTTGGAGAGGGTGTGAGGAGAAGAGCATACCCACCCTCATCTCCAGGTGCCT
GCTGTCTCCTCGGTGGCTTGTGGGGCTCTGTGGGGTATGCTGTGACCAAGGATGGTCTGTTTTCGCC
TGGGGCATGGGCACCAACTACCAGCTGGGCACAGGGCAGGATGAGGACGCCTGGAGCCCTGTGGAGATG
ATGGGCAAACAGCTGGAGAACCCTGTGGTCTTATCTGTGTCCAGCGGGGGCCAGCATACAGTCTTATTA
GTCAAGGACAAAGAACAGAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	
ACCN:	NM_001269
Insert Size:	1266 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001269.4
RefSeq Size:	2540 bp
RefSeq ORF:	1266 bp
Locus ID:	1104
UniProt ID:	P18754
Cytogenetics:	1p35.3
Domains:	RCC1
MW:	45 kDa

Gene Summary:

Guanine-nucleotide releasing factor that promotes the exchange of Ran-bound GDP by GTP, and thereby plays an important role in RAN-mediated functions in nuclear import and mitosis (PubMed:1944575, PubMed:17435751, PubMed:20668449, PubMed:22215983, PubMed:11336674). Contributes to the generation of high levels of chromosome-associated, GTP-bound RAN, which is important for mitotic spindle assembly and normal progress through mitosis (PubMed:12194828, PubMed:17435751, PubMed:22215983). Via its role in maintaining high levels of GTP-bound RAN in the nucleus, contributes to the release of cargo proteins from importins after nuclear import (PubMed:22215983). Involved in the regulation of onset of chromosome condensation in the S phase (PubMed:3678831). Binds both to the nucleosomes and double-stranded DNA (PubMed:17435751, PubMed:18762580).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (c) that is shorter than isoform a. Both variants 3 and 4 encode the same isoform.