

Product datasheet for **SC314879**

RIN2 (NM_018993) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIN2 (NM_018993) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIN2
Synonyms:	MACS; RASSF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC314879 representing NM_018993.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACAGCTTGGACCATGGGCGCCCGCGGTCTGGACAAGCGAGGAAGTTCTTTAAGCTCATTGACACA
ATTGCCTCGGAGATCGGAGAACTGAAACAGGAGATGGTGCGGACAGATGTCAACCTGGAAGATGGCCTG
GAACCCGCTGAAACCCACAGCATGGTAAGACACAAGGATGGTGGCTATTCCGAGGAAGAGGACGTGAAG
ACCTGTGCCCGGGAATCAGGCTATGACAGCCTCTCCAACAGGCTCAGCATCTTGACCGGCTCCTCCAC
ACCCACCCCATATGGCTGCAGCTGAGTCTGAGTGAGGAGGAGGACAGAGGTCCTGCAGGCCAGCCT
CCGGGGATCTTCTGTTTATAAATCTACCAAGATGCAGAAGAAAGTCTCTCCCTCCGCTGCCCTGT
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TCTGTGGACGACTTCCAGAATTACCTCCGAGTTGCATTTACAGGAGTCAACAGTGGTTGCACAGGAAG
ACCCTCCTTGTGAGACCTTACATCACCCTGAGGATGTGTGTGATCTGCGCTGAGAAGTTCAAGGTG
GGGGACCTGAGGAGTACAGCCTCTTTCTCTTCTGTTGACGAGACATGGCAGCAGTGGCAGAGGACACT
TACCCTCAAAAAATCAAGCGGAGCTGCACAGCCGACCACAGCCCCACATCTTCCACTTTGTCTACAAA
CGCATCAAGAACGATCCTTATGGCATATTTTCCAGAACGGGAAGAAGACCTCACCACCTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_018993
Insert Size: 2688 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:	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_018993.3</u>
RefSeq Size:	4265 bp
RefSeq ORF:	2688 bp
Locus ID:	54453
UniProt ID:	<u>Q8WYP3</u>
Cytogenetics:	20p11.23
Domains:	RA, VPS9
MW:	100.2 kDa
Gene Summary:	The RAB5 protein is a small GTPase involved in membrane trafficking in the early endocytic pathway. The protein encoded by this gene binds the GTP-bound form of the RAB5 protein preferentially over the GDP-bound form, and functions as a guanine nucleotide exchange factor for RAB5. The encoded protein is found primarily as a tetramer in the cytoplasm and does not bind other members of the RAB family. Mutations in this gene cause macrocephaly alopecia cutis laxa and scoliosis (MACS) syndrome, an elastic tissue disorder, as well as the related connective tissue disorder, RIN2 syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011] Transcript Variant: This variant (2) lacks a portion of the 5' UTR and 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1.