

## Product datasheet for **RN209193**

### **Rcn3 (NM\_001008694) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rcn3 (NM_001008694) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rcn3
Synonyms:	Rem1; Rlp49
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN209193 representing NM_001008694 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGTGGCGATGGACGCTTATGTTGCTTCTCTTACTGCTGAGGCACTGGGCCCTGGGAAGCCATCTC  
CTGATGCAGGACCTCATGGCCAGGATAGGGTGCATCATGGAACCCCTGAGTGAGGCCCCACGATGA  
CGCCACGGGAATTTCCAGTACGACCATGAGGCGTTCCTGGGACGAGACGTGGCCAAGGAATTTGACCAA  
CTACCCCAAGAAAGCCAGGCCCGACTTGGGCGGATTGTAGACCGCATGGACCTTCTGGGGACAGCG  
ATGGCTGGGTGTCTTAGCTGAGCTCCGCGCGTGGATTGCGCACACACAGCAGCGGCACATCCGTGACTC  
GGTGAGCGCAGCCTGGCACACCTACGACACGGACCGCGACGGGCGGTGGGTTGGGAGGAGTTGCGCAAT  
GCCACCTATGGCCATTATGAGCCCGGGAGGAATTTATGATGTGGAGGATGCCGAGACTTACAAGAAGA  
TGCTGGCTCGGGATGAGCGCCGATTCCGGGTAGCTGACCAAGATGGGGACTCCATGGCTACTCGGGAAGA  
GCTGACGGCCTTCTGCATCCTGAGGAGTCCCTCACATGCGGGACATCGTGGTGGCAGAGACCCCTGGAG  
GACCTTGACAAGAACAAGATGGCTACGTGCAGGTGGAAGAGTACATCGCGGACTTGTACTCTCGGAGC  
CTGGGGAGGAGGAACCGCCTGGGTACAGACAGAGAGGCAGTTCGAGACTTCCGGGATCTGAACAA  
GGATGGGCGGCTGGACGGCAGTGAAGTCGGTACTGGGTGCTGCCTCCGTCCAGGACCAGCCCTGGTG  
GAGGCCAATCACCTGCTGCATGAGAGCGACACAGACAAGGATGGCCGACTGAGCAAAGCTGAGATCCTAA  
GCAACTGGAACATGTTTGTGGGTAGCCAGGCCACCAACTACGGTGAGGATCTGACAAGGCACCACGATGA  
GCTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001008694



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<b>Insert Size:</b>	987 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001008694.2</a></u> , <u><a href="#">NP_001008694.1</a></u>
<b>RefSeq Size:</b>	1436 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	494125
<b>UniProt ID:</b>	<u><a href="#">I6L9G5</a></u>
<b>Cytogenetics:</b>	1q22
<b>Gene Summary:</b>	Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic reticulum (By similarity). Required for the proper biosynthesis and transport of pulmonary surfactant-associated protein A/SP-A, pulmonary surfactant-associated protein D/SP-D and the lipid transporter ABCA3 (By similarity). By regulating both the proper expression and the degradation through the endoplasmic reticulum-associated protein degradation pathway of these proteins plays a crucial role in pulmonary surfactant homeostasis (By similarity). Has an anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens (By similarity). This calcium-binding protein also transiently associates with immature PCSK6 and regulates its secretion (By similarity).[UniProtKB/Swiss-Prot Function]