

Product datasheet for **MC206293**

Rcn3 (BC025602) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rcn3 (BC025602) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rcn3
Synonyms: 6030455P07Rik; D7Ertd671e; D530026G20Rik; RLP49
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC025602
 CCACGCGTCCGCATCTTTGTGCGAAAGCAGAGCTCAGCGTAGGGAGCTAACTCAGGCCGGGTAACAGAGG
 AACCGATGATGTGGCGATGGTCGTTTCTGTTGCTTCTCTTACTGCTGAGGCACTGGGCCCTCGGGAAGCC
 ATCCCCTGATGCAGGACCTCATGGCCAGGATAGGGTCCATCATGGAACCCCTGAGCGAGGCCCCAC
 GATGACGCCACGGGAATTTCCAGTACGACCATGAGGCGTTCCTGGGACGAGACGTGGCCAAAGAAATTTG
 ACAAACCTCAGCCAGAGGAAAGCCAGGCCCGACTTGGGCGGATCGTAGACCGCATGGATCTTGCTGGGGA
 CAGCGACGGCTGGGTGTCCTTAGCTGAGCTCCGCGCTGGATCGCGCACACACAGCAGCGGCACATCCGT
 GACTCGGTGAGCGCAGCCTGGCACACCTACGACACGGACCGGACGGGCGCTGGGTTGGGAGGAGTTGC
 GCAATGCCACCTATGGCCATTATGAGCCCGGAGAGGAGTTTCATGATGTGGAGGATGCCGAGACCTACAA
 GAAGATGCTGGCTCGGGATGAGCGGCGATTCCGGGTAGCCGACCAAGATGGCGACTCCATGGCTACTCGG
 GAAGAGCTGACGGCCTTTCTGCATCCGGAGGAGTCCCTCACATGCGGGACATCGTGGTAGCAGAGACCC
 TGGAGGACCTTGACAAGAACAAAGATGGCTACGTGCAGGTGGAAGAGTATATCGCGGACCTGACTCCGA
 GGAGCCTGGGGAGGAGGAACCTGCCTGGGTGCAGACAGAGCGGCAGCAGTTCCGAGAGTTCCGGGATCTG
 AACAAAGGACGGGCAACTGGATGGCAGTGAAGTCGGTACTGGGTGCTGCCTCCATCCCAGGACGACCCC
 TGGTGGAGGCCAACACCTGCTGCATGAGAGCGACACGGACAAGGATGGCCGGCTGAGCAAAGCTGAGAT
 CTTGAGCAACTGGAACATGTTTGTGGGCAGCCAGGCCACCAACTACGGTGAAGGACCTGACAAGGCACCAT
 GATGAGCTCTGATCCCCATGTCTCTCAGACTTCCGACCACATGACCACATGGGGACAACCGCGGGGCCA
 CTGCAGCCAGCCCCGCCCCAGGACACAGACTCAGCTCTGGTGTTCCTGGTCTTGGGCCCTCAGTCACC
 TTCTCTCCCTGAGACCCCTGTCACCAACCCTGGGACCCCAACTGCCAGGATACTCAGGCACCTCAA
 GATAAGTGACACCCACTGATAGCATCCCAGCACTGACGCGGGCCACATCCTGACCTAACCGCAATTTGA
 ACTCTGAATGTCAACAGCACAAGCTAACCTGTCCTGCCTAGGAGCAATAAAAGCTGTTGCTGGGGTCCCC
 TGCTCAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC025602
Insert Size: 987 bp



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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>BC025602</u> , <u>AAH25602</u>
RefSeq Size:	1421 bp
RefSeq ORF:	987 bp
Locus ID:	52377
Cytogenetics:	7 29.11 cM
Gene Summary:	Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic reticulum (PubMed:26252542). 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 (PubMed:26252542). 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 (PubMed:26252542). 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]