

Product datasheet for **RN203391**

Arcn1 (NM_001007662) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arcn1 (NM_001007662) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arcn1
Synonyms:	MGC94158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN203391 representing NM_001007662
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTGTGGCGGCAGCGGTCTGCACGAAAGCGGAAAGGCAATTGTTTCTCGACAGTTTGTGGAGA
 TGACCCGAACTCGGATTGAGGGTTATTAGCAGCTTCCCAAACCTCATGAACACTGAAAAACAACATAC
 TTTTGTTGAAACAGAAAGTGAAGATATGTCTACCAACCTATGGAGAACTGTACATGGTATTGATCACT
 ACAAAAAACAGCAATATCTTAGAAGATTGGAGACTCTACGGCTTCTCAAGGGTGATCCCTGAATATT
 GCCGAGCCTTAGAAGAAAATGAAATATCTGAGCACTGTTTTGATTTGATTTTGTCTTTGATGAAATTGT
 TGCCCTGGGATACCGGGAGAATGTTAACCTGGCACAGATCAGAAGTTTACAGAAATGGACTCTCATGAG
 GAGAAAGTATTCAGAGCAGTCAGAGAGACTCAAGAACGTGAAGCTAAAGCTGAAATGCGGCGTAAAGCAA
 AGGAATTACAACAGGCCCGGAGAGACCGGAGAGACAGGGAAAGAAAGCACCAGGATTTGGGGGATTTGG
 TAGTTCTGCAGTGTCTGGAGGCAGCACAGCAGCCATGATCACAGAGACTATCATTGAAACTGATAAACCA
 AAAGTGGCACCCGACCCAGCCAGACCTTCAGGCCCCAGCAAGGCTTTGAAACTTGGAGCTAAAGGAAAGG
 AAGTAGATAACTTTGTGGACAACTGAAATCTGAAGGCGAACTATTATGTCTTCTAACATGGGGAAAGCG
 CACCTCGGAAGCAGCCAAAGTGCATGCTCCACCCATTAATATGAAAAGTGTGCATATGAAGATTGAAGAA
 AAGATCACACTGACCTGTGGGAGAGATGGAGGATTACAGAATAAGGAGTTGCATGGCATGATCATGCTTA
 GGATCTCAGATGACAAGTTTGGCCGATTTCGTCTTCATGTAGAAAATGAAGATAAGAAAGGGGTGCAGCT
 GCAGACCCATCCAATGTGGATAAAAACTTTTTACTGCAGAGTCTCTCATTGGCTTGAAAAACCCAGAG
 AAGTCAATTCAGTCAACAGCGATGTAGGGTGTAAAGTGGAGACTACAACAACAGAGGAATCTTTTA
 TTCCTTTGACAATTAATTGCTGGCCTTCTGAAAGTGGAAACGGCTGTGATGTCAACATAGAATATGAAT
 ACAGGAAGATAATTTAGAGCTCAATGATGTGGTCAATCACCATCCCACTCCCATCGGGTGTGGTGCACCT
 GTGATCGGTGAGATCGATGGGGAATATCGACACGACAGTCGGAGAAATACCTTGGAGTGGTGCCTGCCAG
 TGATTGATGCCAAAAATAAGAGTGGCAGCCTGGAGTTCAGCATTCTGGGAGCCCAATGACTTCTTCCC
 TGTTCAAGTTTCTTTCATCTCCAAAAAGAATTACTGCAACATACAGGTTACCAAAGTGACCCAGGTAGAT
 GAAACAGCCCTGTTAGGTTTTCCACAGAGACCACTTTCTTAGTGGACAAATATGAAATCTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001007662
- Insert Size:** 1536 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:

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_001007662.1](#), [NP_001007663.1](#)

RefSeq Size: 3485 bp

RefSeq ORF: 1536 bp

Locus ID: 300674

UniProt ID: [Q66H80](#)

Cytogenetics: 8q22

Gene Summary: The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity).[UniProtKB/Swiss-Prot Function]