

## Product datasheet for MR215001

### Arrdc4 (NM\_001042592) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arrdc4 (NM\_001042592) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arrdc4  
**Synonyms:** 2410003C09Rik; AV216361  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR215001 representing NM\_001042592  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGGCGAGGCGGGAGCCGATGGTCTCGGGCCGTGTCAAGAGCTTGGGGCTAGTGTTCGAAGATG  
 AGAGCAAGGGCTGCTACTCAAGCGGCGAGACAGTGGCCGGGCACGTGCTGCTGGAGGCGGCAGAGCCGGT  
 GGCCCTGCGCGGACTGCGCCTGGAGGCCAGGGCCGTGCCACCTCTGCCTGGGGCCGAGCGCTGGGGCC  
 AGGGTCTGCATCGGTGGGGCTCTCCCGCAGCCTCCTCAGAAGTGAATACTTGAACCTGCGGTTGAGTC  
 TGCTGGAGGCCAGCTGGTGAAGGTGCACCTTGTACAACCAGGAAAACACGAGTTTCCCTTTTCGCTT  
 TCAGTTCCGTCTGAACCTTTGGCAACATCGTTTTACTGGGAAGTATGGCAGTATTCAGTACTGTGTGAGG  
 GCTGTTTTGGAACGACCCCAAGTCCAGATCAGAGCGTCAGACGAGAGCTCCAGGTTGTCAGTCACGTGG  
 ATGTCAACACACCCGCCCTTATTGACTCCTATGCTGAAGACGCAGGAGAAAATGGTTGGCTGTTGGCTTTT  
 CACCTCTGGTCTGTGCTACTGAGCGTCAAGATCGAGAGAAAGGGCTACTGTAACGGAGAAGCTATCCCT  
 ATCTATGCAGAAATAGAAAATTGTTTCATCTCGGCTGGTTGTTCCCAAGGCAGCCATATCCAAACCCAGA  
 CGTACTTGGCTAGTGAAAGACAAAGACAGTCCGGCACATGGTTGCCAATGTTTCGAGGAAACCACATTGG  
 TTCTGGGAGTACGGACACCTGGAATGGGAAGATGCTGAAGATCCCACCTGTCACCCCATCCATCCTGGAT  
 TGCTGCATCAGAGTGGACTACTCCTTAGCTGTATACATTATATCCCTGGTGCTAAAAGATTGATGC  
 TGGAGCTGCCTTTGGTTATTGGTACAATTCCATACAGTGGCTTTGGCCGAGAAAACAGCAGTGTCCGCAAG  
 CCAAGTTCAGTATGGACATGTGCTGGTTGGCACTGGCCCTACCGGAGCAGCCTGAAGCACCACCAAAATTAT  
 GCAGATGTGGTATCGGAAGAAGAATTCTCCCGACAGTTCCTCCGTACCCTCAGCCCTCTGACTGTGACG  
 GGAAGCCTGCTACTCAATGTTTGCCTGCATACAAGAATTCCGTTTCCAGCCTCCCCCTTTATTTCAGA  
 GTTGATCCACATCCTGGTATGCCAAGAGACCCAGCCTGTATCCTTCATTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR215001 representing NM\_001042592  
Red=Cloning site Green=Tags(s)

MGGEAGADGPRGRVKSGLGVFEDESKGCYSSGETVAGHVLLAAEPVALRGLRLEAQGRATSAWGPSAGA  
 RVCIGGGSPAASSEVEYLNLRLLLEAPAGEVTL LQPGKHEFPFRFQLPSEPLATSFTGKYGSIQYCVR  
 AVLERPQVPDQSVRRELQVSHVDVNTPLLLTPMLKTQEKMGVGCWLF TSGPVSLSVKIERKGYCNGEAI P  
 IYAEIENCSSRLVVPKAAIFQTQTYLASGKTKVRHMVANVRGNHIGSGSTDTWNGKMLKIPPVTPSILD  
 CCIIRVDYSLAVYIHIPGAKRLMLELPLVIGTIPYSGFGRRNSSVASQF SMDMCWLALALPEQPEAPPNY  
 ADVVSEEEFSRHVPPYPQPSDCDGEACYSMFACIQEFRFQPPLYSEVDPHPGDAQETQPVSFIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001042592

**ORF Size:** 1245 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001042592.2](#), [NP\\_001036057.1](#)

**RefSeq Size:** 3903 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 66412

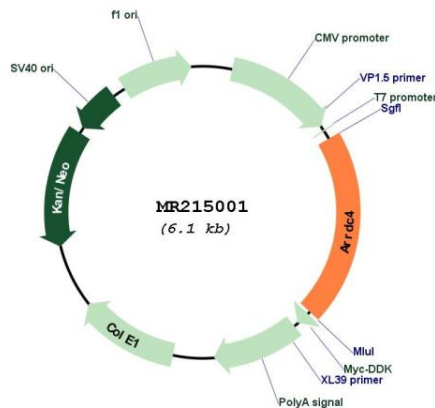
**UniProt ID:** [A0A0B4J1F4](#)

**Cytogenetics:** 7 C

**MW:** 45.4 kDa

**Gene Summary:** Functions as an adapter recruiting ubiquitin-protein ligases to their specific substrates (PubMed:27462458). Plays a role in endocytosis of activated G protein-coupled receptors (GPCRs) (By similarity). Through an ubiquitination-dependent mechanism plays also a role in the incorporation of SLC11A2 into extracellular vesicles (PubMed:27462458). May play a role in glucose uptake (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR215001