

## Product datasheet for MR204099

### Arrdc4 (NM\_025549) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arrdc4 (NM_025549) 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:	>MR204099 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGGCGAGGCGGGAGCCGATGGTCTCGGGGCCGTGTCAAGAGCTTGGGGCTAGTGTTCGAAGATG  
AGAGCAAGGGCTGCTACTCAAGCGGCGAGACAGTGGCCGGGCACGTGCTGCTGGAGGCGGCAGAGCCGGT  
GGCCCTGCGCGGACTGCGCCTGGAGGCCAGGGCCGTGCCACCTCTGCCTGGGGCCGAGCGTGGGGCC  
AGGGTCTGCATCGGTGGGGCTCTCCCGCAGCCTCCTCAGAAGTGAATACTTGAACCTGCGTTGAGTC  
TGCTGGAGGCCAGCTGGTGAAGGTGCACCTTGTACAACCAGGAAAACACGAGTTTCCCTTTTCGCTT  
TCAGTTCCGTCTGAACCTTTGGCAACATCGTTTTACTGGGAAGTATGGCAGTATTCAGTACTGTGTGAGG  
GCTGTTTTGGAACGACCCCAAGTCCAGATCAGAGCGTCAGACGAGAGCTCCAGTTGTGAGTACAGTGG  
ATGTCAACACACCCGCCCTTATTGACTCCTATGCTGAAGACGCAGGAGAAAATGGTTGGCTGTTGGCTTTT  
CACCTCTGGTCTGTGCTACTGAGCGTCAAGATCGAGAGAAAAGGGCTACTGTAACGGAGAAGCTATCCCT  
ATCTATGCAGAAATAGAAAATTGTTTCATCTCGGCTGGTTGTTCCCAAGGCAGCCATATCCAAACCCAGA  
CGTACTTGGCTAGTGAAAGACAAAGACAGTCCGGCACATGGTTGCCAATGTTTCGAGGAAACCACATTGG  
TTCTGGGAGTACGGACACCTGGAATGGGAAGATGCTGAAGATCCCACCTGTCACCCCATCCATCCTGGAT  
TGCTGCATCATCAGAGTGGACTACTCCTTAGCTGTAATCCAAGCTTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204099 protein sequence  
Red=Cloning site Green=Tags(s)

MGGEAGADGPRGRVKSGLGVFEDESKGCYSSGETVAGHVLLAAEPVALRGLRLEAQGRATSAWGPSAGA  
 RVCIGGGSPAASSEVEYLNLRLLLEAPAGEVTL LQPGKHEFPFRFQLPSEPLATSFTGKYGSIQYCVR  
 AVLERPQVPDQSVRRELQVSHVDVNTPLLLPMLKTQEKMVGCWLF TSGPVSLSVKIERKGYCNGEAIP  
 IYAEIENCSSRLVVPKAAIFQTQTYLASGKTKTVRHMVANVRGNHIGSGSTDTWNGKMLKIPPVTPSILD  
 CCIIRVDYSLAVIQAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_025549

**ORF Size:** 891 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\\_025549.3](#), [NP\\_079825.2](#)

**RefSeq Size:** 1097 bp

**RefSeq ORF:** 891 bp

**Locus ID:** 66412

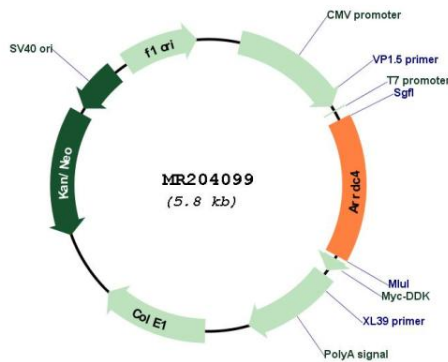
**UniProt ID:** [A0A0B4J1F4](#)

**Cytogenetics:** 7 C

**MW:** 31.6 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 MR204099