

Product datasheet for **RC203548**

ARPM1 (ACTRT3) (NM_032487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARPM1 (ACTRT3) (NM_032487) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARPM1
Synonyms:	ARP-T3; ARPM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203548 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACCACTGCCAGCTACCGTGGTGATCGACAACGGCTCGGGAATGATCAAGGCGGGCGTGGCTGGGT
GCCGGGAGCCCCAGTTTATCTACCCGAACATTATCGGCCGCGCAAGGGCCAGAGCCGCGGCCAGGG
CGGGCTAGAACTCTGCGTGGGCGACCAAGCTCAGGACTGGAGGAGCTCGCTGTTTCATCAGTTACCCAGTG
GAGCGTGGTCTCATTACTTCATGCGAGGACATGGAGATCATGTGAAGCATATCTATGACTATAACCTAA
AGCTGAAGCCGTGTGATGGCCAGTCTTGATTACTGAGCCAGCGCTGAACCCACTGGCCAACCGGAACA
GATCACGGAAATGTTTTGAGCATCTGGGTGTTCTGCCTTCTATATGTCCATCCAGGCTGTGCTGGCT
CTCTTTGCTGCTGGCTTCACTACTGGCCTTGCTGAATTCAGGTGCTGGGGTTACCCAGAGTGTGCCCA
TCTTTGAGGGTACTGTCTGCCTCATGGTGTGCAGCAACTGGATCTGGCAGGCCTTGACCTCACCAACTA
CCTCATGGTGCTAATGAAGAACCATGGTATCATGTTGCTCAGTGCTTCAGACAGAAAGATTGTTGAAGAC
ATCAAGGAGAGCTTTTGTATGTGGCAATGAACTACGAAGAGGAAATGGCCAAGAAACCCGATTGTCTAG
AGAAAGTTTACCAACTACCTGATGGGAAGGTCATCCAGCTCCATGACCAGCTCTTTTCTGTCCAGAGGC
CCTCTTCTCTCCGTGTCATATGAACCTTGAGGCCCTGGCATTGATAAGATATGCTTCAGCAGCATAATG
AAATGTGATACAGGCCTGAGGAATTCCTTCTTTTCCAATATTATCCTTGGCGGGGATCAACCTCTTCC
CTGGTTTAGACAAGCGGTTAGTTAAGGATATAGCAAAGGTGGCTCCTGCCAACACCGCTGTGCAAGTTAT
AGCTCCTCCAGAAAGGAAAATATCAGTGTGGATGGGAGTTCTATTCTTGATCCTTGTCTGCCTCCAG
GACATGTGGATCACTGCTGCAGAATTTAAAGAAGTTGGACCCAACATAGTACACCAAAGATGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203548 protein sequence
Red=Cloning site Green=Tags(s)

MNHCQLPVVIDNGSGMIKAGVAGCREPQFIYPNIIGRAKQSRRAAQGGLLVCVGDQAQDWRSSLFISYPV
 ERGLITSCEDMEIMWKHIYDYNLKLKPCDGPVLITPALNPLANRQQITEMFFEHLGVPAFYMSIQAVLA
 LFAAGFTTGLVLSGAGVTSVPIFEGYCLPHGVQQLDLAGLDLNYLMVLMKNHGIMLLSASDRKIVED
 IKESFCYVAMNYEEEMAKKPDCLKVKYQLPDGKVIQLHDQLFSCEALFSPCHMNLEAPGIDKICFSSIM
 KCDTGLRNSFFSNIIILAGGSTFPGLDKRLVKDIAKVAPANTAVQVIAPPERKISVWMGGSILASLSAFQ
 DMWITAAEFKEVGNIVHQRCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6413_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_032487

ORF Size: 1116 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032487.1](#)

RefSeq Size: 2017 bp

RefSeq ORF: 1119 bp

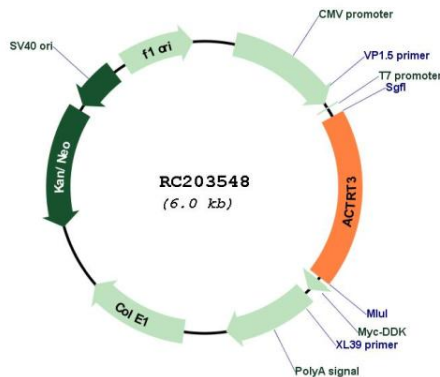
Locus ID: 84517

UniProt ID: [Q9BYD9](#)

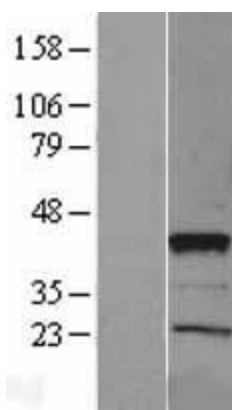
Cytogenetics: 3q26.2

MW: 40.9 kDa

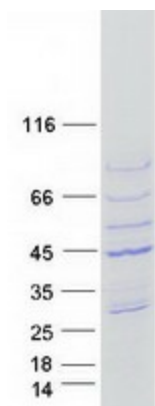
Product images:



Circular map for RC203548



Western blot validation of overexpression lysate (Cat# [LY410114]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203548 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACTRT3 protein (Cat# [TP303548]). The protein was produced from HEK293T cells transfected with ACTRT3 cDNA clone (Cat# RC203548) using MegaTran 2.0 (Cat# [TT210002]).