

Product datasheet for **RC201354**

ARD1A (NAA10) (NM_003491) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARD1A (NAA10) (NM_003491) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARD1A
Synonyms:	ARD1; ARD1A; ARD1P; DXS707; hARD1; MCOPS1; NATD; OGDNS; TE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201354 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATCCGCAATGCGAGGCCAGAGGACCTAATGAACATGCAGCACTGCAACCTCCTCTGCCTGCCCG
AGAACTACCAGATGAAATACTACTTCTACCATGGCCTTCTCTGGCCCCAGCTCTTTACATTGCTGAGGA
CGAGAATGGGAAGATTGTGGGTATGCTCTGGCCAAAATGGAAGAGGACCCAGATGATGTGCCCATGGA
CATATCACCTCATTGGCTGTGAAGCGTCCACCAGCGCCTCGGTCTGGCTCAGAACTGATGGACCAGG
CCTCTCGAGCCATGATAGAGAATTCAATGCCAAATATGTCTCCCTGCATGTCAGGAAGAGTAACCGGGC
CGCCTGCACCTCTATTCCAACACCCCTCAACTTTCAGATCAGTGAAGTGGAGCCAAATACTATGCAGAT
GGGAGGACGCCTATGCCATGAAGCGGGACCTCACTCAGATGGCCGACGAGCTGAGGCGGCACCTGGAGC
TGAAAGAGAAGGGCAGGCACGTGGTGTGGGTGCCATCGAGAACAAGGTGGAGAGCAAAGGCAATTCACC
TCCGAGCTCAGGAGAGGCCTGTGCGGAGGAGAAGGGCCTGGCTGCCGAGGATAGTGGTGGGGACAGCAAG
GACCTCAGCGAGGTGACGAGACCACAGAGACAGATGTCAAGGACAGCTCAGAGGCCTCCGACTCAG
CCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201354 protein sequence
 Red=Cloning site Green=Tags(s)

MNIRNARPEDLMNMQHCNLLCLPENYQMKYFYHGLSWPQLSYIAEDENKIVGVYLAKMEEDPDDVPHG
 HITSLAVKRSHRRLGLAQKLMDOASRAMIENFNAYVSLHVRKSNRAALHLYSNTLNFQISEVEPKYYAD
 GEDAYAMKRDLTQMADELRRHLELKEKGRHVVLGAIENKVESKGNSPSSSGEACREEKGLAAEDSGGDSK
 DLSEVSETTESTDVKDSSEASDSAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6125_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003491

ORF Size: 705 bp

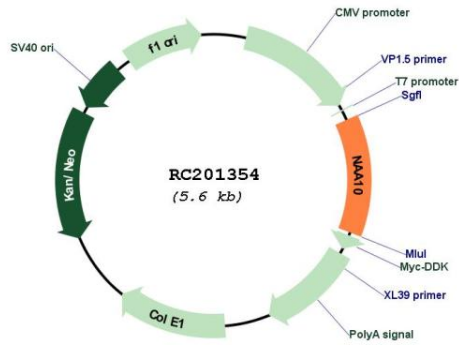
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

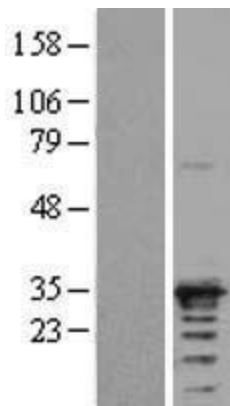
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003491.4
RefSeq Size:	1136 bp
RefSeq ORF:	708 bp
Locus ID:	8260
UniProt ID:	P41227
Cytogenetics:	Xq28
Domains:	Acetyltransf
Protein Families:	Druggable Genome
Protein Pathways:	Glycerophospholipid metabolism, Limonene and pinene degradation, Phenylalanine metabolism, Tyrosine metabolism
MW:	26.5 kDa
Gene Summary:	N-alpha-acetylation is among the most common post-translational protein modifications in eukaryotic cells. This process involves the transfer of an acetyl group from acetyl-coenzyme A to the alpha-amino group on a nascent polypeptide and is essential for normal cell function. This gene encodes an N-terminal acetyltransferase that functions as the catalytic subunit of the major amino-terminal acetyltransferase A complex. Mutations in this gene are the cause of Ogden syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

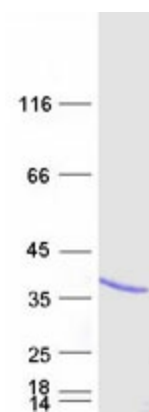
Product images:



Circular map for RC201354



Western blot validation of overexpression lysate (Cat# [LY401179]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201354 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NAA10 protein (Cat# [TP301354]). The protein was produced from HEK293T cells transfected with NAA10 cDNA clone (Cat# RC201354) using MegaTran 2.0 (Cat# [TT210002]).