

Product datasheet for **RR203312**

Art2b (NM_198735) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Art2b (NM_198735) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Art2b
Synonyms:	Ag-F; Art2; Art2a; ARTC2; Ly-2; LY2; PtaA; Rt6; RT6.1; RT6.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203312 representing NM_198735 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCATCAAATATTTGCAAGTTCCTTCTAACTTGGTGGTTAATTCAGCAGGTGACTGGGCTGACAGGGC
CTTTGATGCTAGACACGGCTCCCAATGCATTTGATGACCAGTATGAGGGCTGTGCAACAAAATGGAGGA
AAAGGCACCCCTGCTTTTACAGGAAGACTTTAATATGAATGCGAAATTAAGTTGCGTGGGAAGAGGCA
AAGAAACGATGGAACAACATAAAACCTAGTAGGAGTTATCCCAAAGGTTTCAATGATTTCCATGGACGG
CTTTAGTTGCCTACACTGGGAGTATCGCTGTAGATTTTAAACAGAGCTGTTAGGGAATTAAGGAAAATCC
TGGTCAATTCCACTACAAGGCCTTCCATTACTACTTAACAAGAGCTTTCAGCTTTTGTAGTAACGGGGAT
TGTCATTCAGTCTACCGAGGCACTAAGACCAGGTTTCACTATACTGGAGCTGGCTCCGTGCGATTCCGGC
AGTTACAGTCTTCATCTTTATCTAAGAAAGTAGCTCAATCTCAAGAGTTTTTCAGTGATCATGGGACGCT
GTTTCATCATCAAACCTGCTTGGGGTTTATATCAAAGAATTCCTTTCCGTCTGACCAAGAGGAGGTG
TTAATTCAGGCTATGAGGTATATCAGAAAGTCAGGACACAAGGCTACAACGAAATTTTCTGGACTCCC
CGAAGAGGAAGAAGAGCAACTACAATTGCTTATACAGCAGCGCAGGAGCCAGAGAGAGCTGTGTATCCCT
GTTCTTGTGGTTCTCCCAAGTCTTCTGGTCCAGCTGCTTTGTCTTGCTGAGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203312 representing NM_198735
Red=Cloning site Green=Tags(s)

MPSNICKFFLTWWLIQQVTGLTGPLMLDTAPNAFDDQYEGCVNKMEEKAPLLLQEDFNMNAKLKVAWEEA
 KKRWNNIKPSRSYPKGFNDFHGTALVAYTGSIAVDFNRAVREFKENPGQFHYKAFHYLLTRALQLLSNGD
 CHSVYRGTKTRFHYTGAGSVRFQGTSSSLSKKVAQSQEFFSDHGTLFIIKTCLGVYIKEFSFRPDQEEV
 LIPGYEVYQKVRTQGYNEIFLDSPKRKKSNYNCLYSSAGARESCVSLFLVVLPSLLVQLLCLAEF

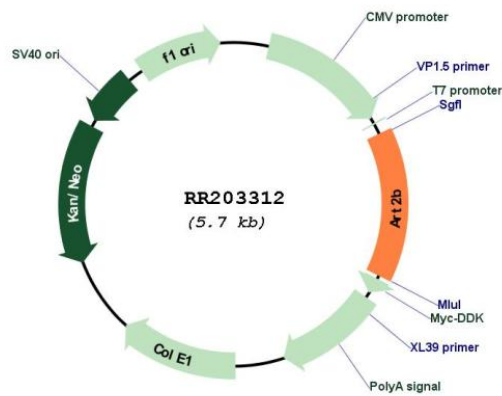
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_198735

ORF Size: 825 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.
RefSeq:	NM_198735.2 , NP_942030.1
RefSeq Size:	1215 bp
RefSeq ORF:	828 bp
Locus ID:	293152
UniProt ID:	P20974
Cytogenetics:	1q32
MW:	31.4 kDa
Gene Summary:	catalyzes the hydrolysis of NAD to ADP-ribose and nicotinamide; allelic forms ART2a (RT6.1) and ART2b (RT6.2) have differing catalytic specificities [RGD, Feb 2006]