

Product datasheet for **RR202991**

Arl8b (NM_001024332) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arl8b (NM_001024332) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Arl8b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202991 representing NM_001024332
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCGCTCATCTCCCGCTGCTGGACTGGTTCGCTCGCTCTTCTGGAAGGAGGAGATGGAACCTGA
CGCTGGTGGGGCTGCAGTACTCTGGCAAGACCCTTCGTCGAATGCATCGCGTCTGGTCAATTCAGTGA
AGATATGATACCCACCGTGGCTTCAACATGAGGAAAGTAACTAAAGGTAACTGCAACAATAAAGATCTGG
GACATAGGAGGGCAGCCCGGTTCCGGAGCATGTGGGAGCGGATTGAGAGGCGTCAATGCAATTGTTT
ACATGATAGATGCTGCAGATCGAGAAAAGATAGAAGCCTCTCGAAATGAACTGCACAATCTTCTAGATAA
GCCACAGTTACAAGGAATCCAGTACTAGTACTTGGAAACAAGAGAGATCTTCAAATGCCTTGGATGAG
AAACAGCTAATTGAAAAAATGAACCTGTCTGCTATTCAAGATAGAGAAATTTGCTGCTATTCAATTTCTT
GCAAAGAAAAGGATAATATAGATATCACACTTCAGTGGCTTATTCAACACTCAAATCCCGGAGAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202991 representing NM_001024332
Red=Cloning site Green=Tags(s)

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIW
DIGGQPRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLDPQLQGIPVLVLGNKRDLPNALDE
KQLIEKMNL SAIQDREICCYSISCKEKNIDITLQWLIQHKSRRS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

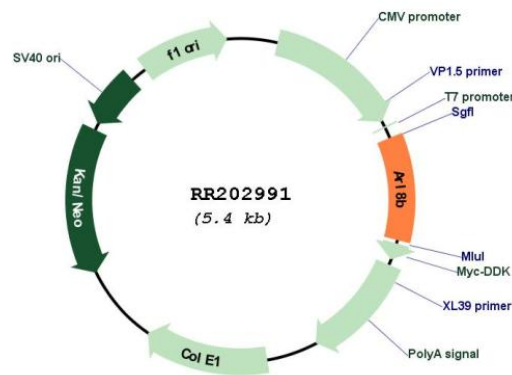


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001024332

ORF Size: 558 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:	<u>NM_001024332.1, NP_001019503.1</u>
RefSeq Size:	2770 bp
RefSeq ORF:	561 bp
Locus ID:	500282
UniProt ID:	<u>Q66HA6</u>
Cytogenetics:	4q41
MW:	21.5 kDa
Gene Summary:	Plays a role in lysosome motility (By similarity). In neurons, mediates the anterograde axonal long-range transport of presynaptic lysosome-related vesicles required for presynaptic biogenesis and synaptic function (By similarity). May play a role in chromosome segregation (By similarity).[UniProtKB/Swiss-Prot Function]