

Product datasheet for **RR204335**

Purb (NM_001017503) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Purb (NM_001017503) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Purb
 Synonyms: pur-beta
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR204335 representing NM_001017503
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGACGGCGACAGCGGCAGCGAGCGCGGTGGCGGGCCCGGCAGCTTCCAGCCCGCCCCGG
 GCGGGGAGGGCCTGGCGGCGAGCAGGAGACGCAGGAGCTGGCCTCGAAGCGGCTGGACATCCAGAACA
 GCGTTTACCTGGACGTGAAGCAGAACGCCAAGGGCCGCTTCTCAAGATCGCCGAGGTGGCGCGGGC
 GGCTCCAAGAGCCGCTCAGCTCTCGATGGCGGTGGCCGCCGAGTTCGCGACTCGCTGGGCGACTTCA
 TCGAGACTACGCGCAGCTGGGTCCCAGCAGCCGGAGCAGCTGGCGGGCGCCGAGGAGGGCGCGG
 GCCGCGCCGCGCCTTAAGAGCGAATTCCTGGTGCAGGAGAACCGCAAGTACTACCTGGACTCAAGGAG
 AACCGCGCGCCGCTTCTGCGCATCCGTGACGCGTAAACCGCGCGGTGGAGGCTTCGCGGGGGAC
 CCGGGCCCGCGGCTGCAGAGCGGCCAGACCATCGCGCTGCCGCGCAGGGCCTCATCGAGTTCGCGCA
 CGCGCTCGCAAGCTCATCGAGACTACGGGGCGAGGATGACGAGCTGGCCGGTGGCCCGGAGGGCGG
 GCCGGCGCCCTGGGGCGGCTGTACGGAGAGCTCCCGAGGGCACCTCCATCACGGTGGACTCCAAGC
 GCTTCTTCTCGACGTGGCTGCAACAAGTACGGGTGTTCTGCGAGTGAGCGAGGTGAAGCCATCCTA
 CCGCAATGCCATCACCGTGCCTTCAAGCCTGGGGCAAGTTGGAGGCGCCTTGTGCGTATGCAGAT
 GAAATGAAAGAAATCCAGGAGCGACAGAGGGATAAGCTTACGAGCGACCGGTGGGGCGAGCGCGGTG
 CGACGAGTCCGAGGGTGAGGAAGTGGATGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204335 representing NM_001017503
Red=Cloning site Green=Tags(s)

MADGDSGSESGGGGPGSFQPAPRGGGGPGEQETQELASKRLDIQNKRFYLDVKQNAKGRFLKIAEVGAG
 GSKSRLTLSMAVAAEFRDSL GDFIEHYAQLGPSSPEQLAAGAEEGGPRRALKSEFLVRENKYYLDLKE
 NQRGRFLRIRQTVNRGGGGFGGGPGGLQSGQTIALPAQGLIEFRDALAKLIDYGGEDDELGGPGGG
 AGGPGGGLY GELPEGTSITVDSKRFFFDVGCNKYGVFLRVSEVKPSYRNAITVVPFKAWGKFGGAFCRYAD
 EMKEIQERQDKLYERRGGGSGGDESEGEVDED

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_001017503

ORF Size: 945 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_001017503.1](#), [NP_001017503.1](#)

RefSeq Size: 2473 bp

RefSeq ORF: 948 bp

Locus ID: 498407

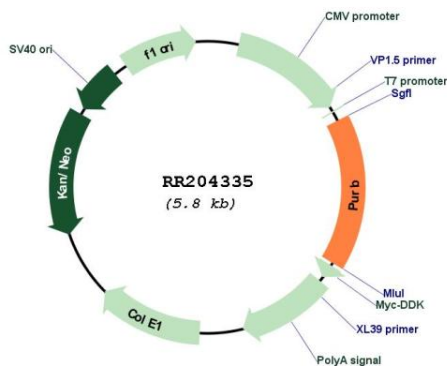
UniProt ID: [Q68A21](#)

Cytogenetics: 14q21

MW: 33.4 kDa

Gene Summary: Has capacity to bind repeated elements in single-stranded DNA such as the purine-rich single strand of the PUR element located upstream of the MYC gene. Plays a role in the control of vascular smooth muscle (VSM) alpha-actin gene transcription as repressor in myoblasts and fibroblasts (By similarity). Participates in transcriptional and translational regulation of alpha-MHC expression in cardiac myocytes by binding to the purine-rich negative regulatory (PNR) element. Modulates constitutive liver galectin-3 gene transcription by binding to its promoter. May play a role in the dendritic transport of a subset of mRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204335