

Product datasheet for **MG225874**

Purb (NM_011221) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Purb (NM_011221) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Purb
Synonyms: 2310015K15Rik; AA114818; Cager-2; D11Bwg0414e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225874 representing NM_011221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGACGGCGACAGCGGCAGCGAGCGCGGGTGGCGGGCGGGCGGGCGGGCCCGCGGCTTCC
 AGCCCGGCCCGCGGGCGGGCGGGCGGGTGGCGGGCGGGCGGGCGAGCAGGAGACGCAGGAGCTGGC
 CTCGAAGCGGCTGGACATCCAGAACAAGCGTTCTACCTGGACGTGAAGCAGAACGCCAAGGGCCGCTTC
 CTCAAGATCGCCGAGGTGGCGGGCGGGCTCCAAGAGCCGCTCACGCTGTCGATGGCGGTGGCCGCCG
 AGTTCCGCGACTCGTGGGCGACTTCATCGAGCACTACGCGCAGCTGGGTCCCAGCAGCCCGAGCAGCT
 GGCGGGCGGGCGCCGAGGAGGGCGGGCGGGCGGGCGGGCGGGCGGGTCCAGAGCGAGTTCCTGGTGCAGAAC
 CGCAAGTACTACCTGGACCTCAAGGAGAACCAGCGGGCGGGTTCCTGCGCATCCGCCAGACGGTGAACC
 GCGGGCGGGCGGGCTTCGGCGGGGGGCCCGGGCCCGGGCGGGTGCAGAGCGGCCAGACCATCGCGTGC
 CGCGCAGGGCCTCATCGAGTTCGCGACGCGCTCGCCAAGCTCATCGAGCACTACGGGGCGACGAGGAC
 GAGCTGGCCGGCGGGCCGGGAGGCGGGCGGGCGGGCCCGGGGGCGGGCTGTACGGAGAGCTCCCGGAGG
 GCACCTCCATCACCGTGGACTCGAAGCGTTCTTCTTCGACGTCGGTGAACAAGTACGGGGTGTCTCT
 GCGAGTGAGCGAGGTGAAGCCGCTCTACCGCAATGCCATCACCGTGCCCTCAAGGCCTGGGCAAGTTT
 GGAGGCGCCTTCTGTCTGATGCAGATGAAATGAAAGAGATCCAGGAGCGACAGGGGATAAGCTTTACG
 AGCGACGGCGGGGCGCGGTGGCGGGCAGCGAGTCCGAGGGTGAAGGAGTGGATGAGGAT

ACGCGTACGCGGGCGGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225874 representing NM_011221
Red=Cloning site Green=Tags(s)

MADGDSGSEGGGGGGGGPQAPRGGGGGGGGPGEQETQELASKRLDIQNKRFYLDVKQNAKGRF
 LKIAEVGAGGSKSRLTL SMAVAAEFRDSL GDFIEHYAQLGPSSPEQLAAGAEEGGPRRALKSEFLVREN
 RKYYLDLKENQRGRFLRIRQTVNRGGGGFGGGPGLQSGQTIALPAQGLIEFRDALAKLIDDYGGDED
 ELAGGPGGAGGPGGL YGELPEGTSITVDSKRFFFDVGCNKYGVFLRVSEVKPSYRNAITVPFKAWGKF
 GGAF CRYADEMKEIQERQRDKLYERRGGSGGGDESEGEVDED

TRTRPLE - GFP Tag - V

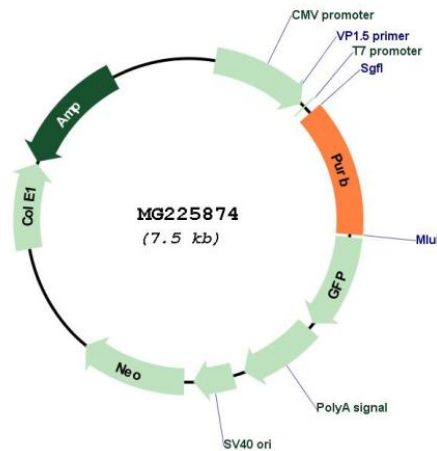
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011221

ORF Size: 972 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_011221.3 , NP_035351.1
RefSeq Size:	1145 bp
RefSeq ORF:	975 bp
Locus ID:	19291
UniProt ID:	O35295
Cytogenetics:	11 4.16 cM
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. 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 (By similarity). Plays a role in the control of vascular smooth muscle (VSM) alpha-actin gene transcription as repressor in myoblasts and fibroblasts.[UniProtKB/Swiss-Prot Function]