

Product datasheet for **MG204623**

Jtv1 (BC026958) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jtv1 (BC026958) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Jtv1
Synonyms:	MGC37389, MGC30261, MGC36346, MGC36522
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204623 representing BC026958 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCGATGTACCAGGTAAAGCCCTATCATGGAGGCAGCGCACCTCTGCGTGTAGAGCTTCCAACCTGCA
 TGTACCGGCTCCCAACGTGCACAGCAAGACCACCAACCCGCCACCGACGCGGGCCACGTGCAGGAAAC
 ATCCGAGCCTTCTTTGCAAGCCCTTGAATCTCGCCAAGATGATATTTAAACGCTTGTATGAGTTGAAG
 GCAGCAGTCGATGGCCTTCAAAGATGATTACACCCCAGATGCAGACTTGGACGTAACCAACATCCTGC
 AAGCTGATGAGCCCACTTTAGCCACAAACACATTGGACTTGAATCCGTGCTTGGAAAGGACTATGG
 GGCCTGAAAGACATTGTGATCAACGCAACCCAGCCTCCCAACCACTGTCCCTGCTTGTGCTGCATAGG
 CTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTTCGTCTGTCAAGAATGTGCCTGAGA
 ATCTTGCAAGTGCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAGTATCAGCTGGGCTTCACTCT
 GATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGCGTACAAACCATGTGCCCCATTGAAGGAGAA
 GGGAACATCGACGTTTCTGTTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACCTCACCTCATCG
 ATAGCTGGGTGGATATGCCATGTTTCAGCTTCGAGAAGGCAGCAGTAAAGAAAAAGCGCCGTGTTCCG
 CTCTATGAACTCCGCTTTGGGGAGGAGCCCGTGCTGGTTGGGAATGAGCTCACTGTGGCAGATGTGGTG
 CTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGCAGCACCCACCAATGTGCAGCGGTGGCTTA
 AGTCCTGTGAGAACCTGGCCCCCTTCAGCACTGCCCTTCAGCTCCTTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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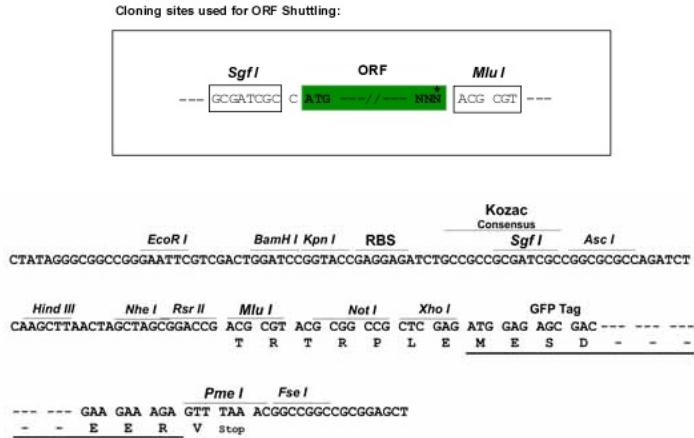
Protein Sequence: >MG204623 representing BC026958
 Red=Cloning site Green=Tags(s)

MPMYQVKPYHGGSAPLRVELPTCMYRLPNVHSKTTNPATDAGHVQETSEPSLQALESRQDDILKRLYELK
 AAVDGLSKMIHTPDADLDVTNILQADEPTTLATNTLDLNSVLGKDYGALKDIVINANPASPLSLLVLHR
 LLCERYRVLSTVHTHSSVKNVPENLVKCFGEQARKQSRHEYQLGFTLIWKNVPKTMKFSVQTMCPIEGE
 GNIARFLFSLFGQKHNAVTLTLIDSWVDIAMFQLREGSSKEKAAVFRSMNSALGRSPWLVGNETLVADV
 LWSVLQQTGGSSGAAPTNRWLKSCENLAPFSTALQLLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC026958

ORF Size: 960 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC026958](#), [AAH26958](#)

RefSeq Size: 1162 bp

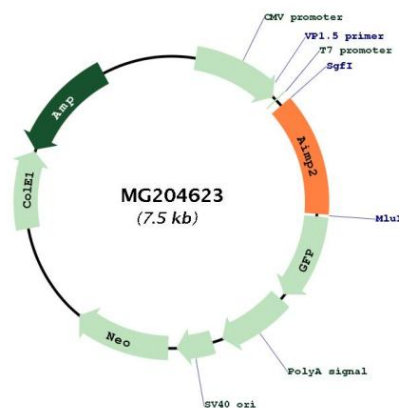
RefSeq ORF: 962 bp

Locus ID: 231872

Cytogenetics: 5 G2

Gene Summary: Required for assembly and stability of the aminoacyl-tRNA synthase complex (PubMed:12060739). Mediates ubiquitination and degradation of FUBP1, a transcriptional activator of MYC, leading to MYC down-regulation which is required for aveolar type II cell differentiation (PubMed:12819782). Blocks MDM2-mediated ubiquitination and degradation of p53/TP53 (PubMed:18695251). Functions as a proapoptotic factor (PubMed:16135753). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204623