

## Product datasheet for **MR204623**

### Jtv1 (BC026958) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | Jtv1 (BC026958) Mouse Tagged ORF Clone                            |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | Jtv1                                                              |
| Synonyms:                 | MGC37389, MGC30261, MGC36346, MGC36522                            |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >MR204623 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGCCGATGTACCAGGTAAGCCCTATCATGGAGGCAGCGCACCTCTGCGTGTAGAGCTTCCAACCTGCA  
 TGTACCGGCTCCCAACGTGCACAGCAAGACCACCAACCCGCCACCGACGCGGGCCACGTGCAGGAAAC  
 ATCCGAGCCTTCTTGCAAGCCCTTGAATCTCGCCAAGATGATATTTAAACGCTTGTATGAGTTGAAG  
 GCAGCAGTCGATGGCCTTCAAAGATGATTACACCCCAGATGCAGACTTGGACGTAACCAACATCCTGC  
 AAGCTGATGAGCCCACTTTAGCCACAAACACATTGGACTTGAATCCGTGCTTGAAAGGACTATGG  
 GGCCTGAAAGACATTGTGATCAACGCAAACCCAGCCTCCCAACCACTGTCCCTGCTTGTGCTGCATAGG  
 CTGCTCTGTGAACGCTACAGGGTCTGTCCACTGTGCACACACATTTCGTCTGTCAAGAATGTGCCTGAGA  
 ATCTTGCAAGTGCTTCGGGGAGCAGGCTAGGAAGCAGTCCCGCCACGAGTATCAGCTGGGCTTCACTCT  
 GATTTGGAAGAATGTGCCAAGACACAGATGAAGTTCAGCGTACAAACCATGTGCCCCATTGAAGGAGAA  
 GGAACATCGCACGTTTCTGTTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACCTCACCTCATCG  
 ATAGCTGGGTGGATATGCCATGTTTCAGCTTCGAGAAGGCAGCAGTAAAGAAAAAGCGCCGTGTTCCG  
 CTCTATGAACTCCGCTTTGGGGAGGAGCCCGTGGCTGGTTGGGAATGAGCTCACTGTGGCAGATGTGGTG  
 CTGTGGTCTGTGCTCCAGCAGACTGGGGCAGCAGTGGGCAGCACCCACCAATGTGCAGCGGTGGCTTA  
 AGTCCTGTGAGAACCTGGCCCCCTTCAGCACTGCCCTTCAGCTCCTTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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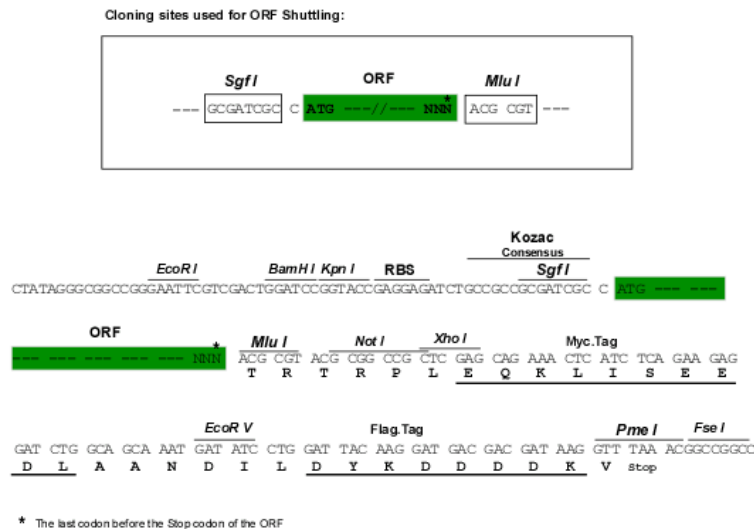
**Protein Sequence:** >MR204623 protein sequence  
Red=Cloning site Green=Tags(s)

MPMYQVKPYHGGSAPLRVELPTCMYRLPNVHSKTTNPATDAGHVQETSEPSLQALESRQDDILKRLYELK  
AAVDGLSKMIHTPADLDVTNIIQADEPTTLATNTLDLNSVLGKDYGALKDIVINANPASPLSLLVLHR  
LLCERYRVLSTVHTHSSVKNPENLVKCFGEQARKQSRHEYQLGFTLIWKNVPKTMKFSVQTMCPIEGE  
GNIARFLFSLFGQKHNAVTLTLIDSWVDIAMFQLREGSSKEKA AVFRSMNSALGRSPWL VGNELTVADV  
LWSVLQQTGGSSGAAPT NVQRWLKSCENLAPFSTALQLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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

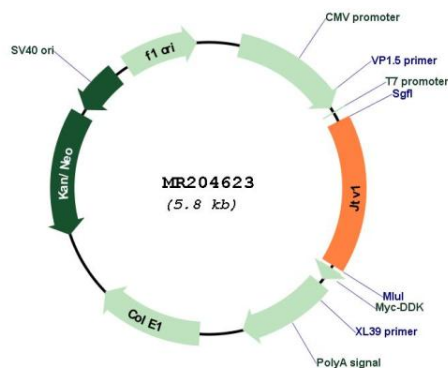
**Locus ID:** 231872

**Cytogenetics:** 5 G2

**MW:** 35.4 kDa

**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 MR204623