

## Product datasheet for MR204272

### Ubb (BC100341) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ubb (BC100341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ubb
Synonyms:	AL033289; Rps27a; Uba52; Ubb2; Ubc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204272 representing BC100341 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCTAGAGGTGGAGCCCAGTGACACCATCG  
AGAACGTGAAGGCCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGG  
CAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAGGAGTCAACCCTGCACCTGGTC  
CTTCGCCTGAGAGGTGGCATGCAGATCTTCGTGAAGACCCTGACYGGCAAGACCATCACCTGGAGGTGG  
AGCCCAGTGACACCATCGAGAACGTGAAGGCCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCA  
GAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAAGAG  
TCAACCCTGCACCTGGTCTCCGTCTGAGGGTGGCATGCAGATCTTCGTGAAGACCCTGACTGGCAAGA  
CCATCACCTGGAGGTGGAGCCCAGTGACACCATCGAGAACGTGAAGGCCAAGATCCAGGATAAAGAGGG  
CATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGAT  
TACAACATCCAGAAAGAGTCAACCCTGCACCTGGTCTTCGTCTGAGGGTGGCATGCAGATCTTCGTGA  
AGACCCTGACTGGCAAGACCATCACCTAGAGGTGGAGCCCAGTGACACCATCGAGAACGTGAAGGCCAA  
GATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGAT  
GGCCGACCCCTCTCTGATTACAACATCCAGAAAGAGTCAACCCTGCACCTGGTCTCCGTCTGAGGGGTG  
GCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204272 representing BC100341  
Red=Cloning site Green=Tags(s)

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLV  
 LRLRGGMQIFVKTLXGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKE  
 STLHLVLRRLRGGMQIFVKTLGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSD  
 YNIQKESTLHLVLRRLRGGMQIFVKTLGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLED  
 GRTLSDYNIQKESTLHLVLRRLGGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC100341

**ORF Size:** 915 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:** [BC100341](#), [AAI00342](#)

**RefSeq Size:** 1145 bp

**RefSeq ORF:** 917 bp

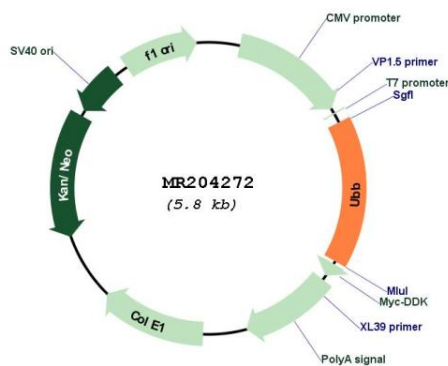
**Locus ID:** 22187

**Cytogenetics:** 11 38.46 cM

**MW:** 41.9 kDa

**Gene Summary:** This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of four direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. Pseudogenes of this gene are located on chromosomes 3 and 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR204272