

## Product datasheet for **MG204272**

### Ubb (BC100341) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ubb (BC100341) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ubb  
**Synonyms:** AL033289; Rps27a; Uba52; Ubb2; Ubc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204272 representing BC100341  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCTAGAGGTGGAGCCAGTGACACCATCG  
 AGAACGTGAAGGCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGG  
 CAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAGGAGTCAACCCTGCACCTGGTC  
 CTTGCGCTGAGAGGTGGCATGCAGATCTTCGTGAAGACCCTGACCGCAAGACCATCACCTGGAGGTGG  
 AGCCAGTGACACCATCGAGAACGTGAAGGCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCA  
 GAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAAGAG  
 TCAACCCTGCACCTGGTCTCCGTCTGAGGGTGGCATGCAGATCTTCGTGAAGACCCTGACTGGCAAGA  
 CCATCACCTGGAGGTGGAGCCAGTGACACCATCGAGAACGTGAAGGCAAGATCCAGGATAAAGAGGG  
 CATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGAT  
 TACAACATCCAGAAGGAGTCAACCCTGCACCTGGTCTTCGCCTGAGAGGTGGCATGCAGATCTTCGTGA  
 AGACCCTGACCGCAAGACCATCACCTGGAGGTGGAGCCAGTGACACCATCGAGAATGTGAAGGCCAA  
 GATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTAGAAGAT  
 GGCCGCACTCTCTGATTACAACATCCAGAAAGAGTCGACCTGCACCTGGTCTCCGTCTGAGGGGTG  
 GCTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204272 representing BC100341  
 Red=Cloning site Green=Tags(s)

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKESTLHLV  
 LRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKE  
 STLHLVLRRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSD  
 YNIQKESTLHLVLRRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLED  
 GRTLSDYNIQKESTLHLVLRRLGGY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

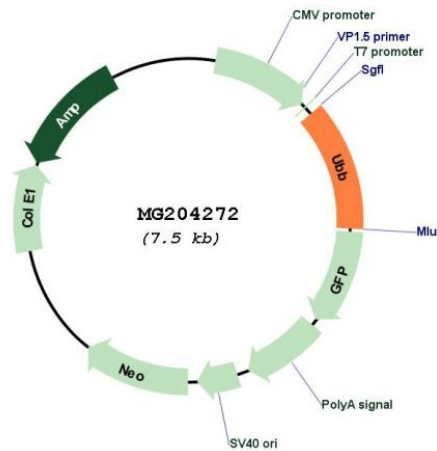
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC100341

**ORF Size:** 917 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC100341</a> , <a href="#">AAI00342</a>
<b>RefSeq Size:</b>	1145 bp
<b>RefSeq ORF:</b>	917 bp
<b>Locus ID:</b>	22187
<b>Cytogenetics:</b>	11 38.46 cM
<b>Gene Summary:</b>	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]