

Product datasheet for **MG204283**

Ubb (NM_011664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubb (NM_011664) 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:	>MG204283 representing NM_011664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCTAGAGGTGGAGCCCAGTGACACCATCG
AGAACGTGAAGGCCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGG
CAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAAGAGTCAACCCTGCACCTGGTC
CTCCGTCTGAGGGGTGGCATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCTGGAGGTGG
AGCCCAGTGACACCATCGAGAATGTGAAGGCCAAGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCA
TAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAACATCCAGAAGGAG
TCAACCCTGCACCTGGTCTCCGTCTGAGGGGTGGCATGCAGATCTTCGTGAAGACCCTGACTGGCAAGA
CCATCACCTGGAGGTGGAGCCCAGTGACACCATCGAGAAGCTGAAGGCCAAGATCCAGGATAAAGAGGG
CATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGAT
TACAACATCCAGAAGGAGTCAACCCTGCACCTGGTCTTCGCCTGAGAGGTGGCATGCAGATCTTCGTGA
AGACCCTGACCGGCAAGACCATCACCTGGAGGTGGAGCCCAGTGACACCATCGAGAATGTGAAGGCCAA
GATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTTTGCCGGCAAGCAGCTGGAAGAT
GGCCGACTCTCTGATTACAACATCCAGAAAGAGTCGACCCCTGCACCTGGTCTCCGTCTGAGGGGTG
GCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204283 representing NM_011664
 Red=Cloning site Green=Tags(s)

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKESTLHLV
 LRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQHLIFAGKQLEDGRTLSDYNIQKE
 STLHLVLRRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSD
 YNIQKESTLHLVLRRLRGGMQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLED
 GRTLSDYNIQKESTLHLVLRRLGGY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011664

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: [NM_011664.2](#), [NP_035794.1](#)

RefSeq Size: 1167 bp

RefSeq ORF: 918 bp

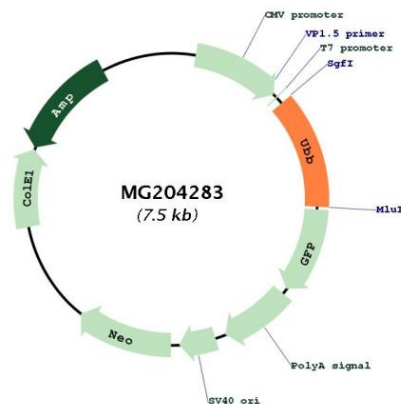
Locus ID: 22187

UniProt ID: [P0CG49](#)

Cytogenetics: 11 38.46 cM

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 MG204283