

Product datasheet for **MG221562**

Ube2m (NM_145578) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2m (NM_145578) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ube2m
Synonyms: 2510040H03Rik; Ubc-rs2; UBC12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221562 representing NM_145578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGAGTCGGCCGGCCGACCAAGGGCAGCA
 GCAAGAAGGCGTCGGCGGCGCAGCTCCGGATTCAGAAGGACATTAACGAGCTGAACCTGCCCAAGACGTG
 TGACATCAGCTTCTCAGACCCAGACGACCTCCTCAACTCAAGCTGGTGATCTGCTCTGATGAAGGCTTC
 TACAAAAGTGGCAAGTTGTATTCAGCTTTAAGGTGGGACAGGGTTACCCACATGACCCTCCAAGGTGA
 AGTGTGAAACAATGGTTTATCATCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGA
 GGACTGGAAGCCAGTCTTACGATAAACTCCATAATTTATGGCCTGCAGTATCTCTCTTGAGCCGAAC
 CCTGAGGACCCACTGAACAAGGAGGCTGCTGAGGTCTGCAGAACAACCGCGGCTGTTTGAACAAAATG
 TGCAGCGCTCCATGAGAGGTGGTTACATCGGGTCCACCTACTTCGAGCGCTGCCTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221562 representing NM_145578
 Red=Cloning site Green=Tags(s)

MIKLFSLKQKKKEESAGGKKGSSKKASAAQLRIQKDINELNPKTCDISFSDPDDLNFKLVICPDEGF
 YKSGKFVFSFKVGGYPHDPPKVKCETMYYHPNIDLEGNVCLNILREDWKPVLINSIIYGLQYLFLEPN
 PEDPLNKEAAEVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_145578

ORF Size: 549 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_145578.3](#), [NP_663553.1](#)

RefSeq Size: 1295 bp

RefSeq ORF: 552 bp

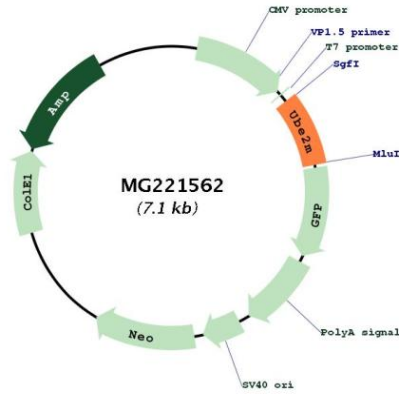
Locus ID: 22192

UniProt ID: [P61082](#)

Cytogenetics: 7 7.73 cM

Gene Summary: Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Involved in cell proliferation (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221562