

Product datasheet for **MG202115**

Ube2t (BC029213) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2t (BC029213) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ube2t
Synonyms: 2700084L22Rik; C80607
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202115 representing BC029213
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGAGCCTCAGCCTGAAGAAGGAAGTGCACATGCTAGCCATCGAACCTCCCCGGGCATCACGT
GCTGGCAGGAAAAGGATCAAGTGGCTGATTTGCGAGCTCAAATACTAGGTGGAGCTAATACACCTTATGA
GAAAGGTGTTTTCACTGGAAGTTATCATTCTGAGAGTACCCATTTGAACCTCCACAGGTCCGATTT
CTAACTCCAATCTATCATCAAACATTGATTCTAGTGAAGGATTTGTCTAGATATTCTCAAATTGCCAC
CAAAGGGTGCATGGAGACCATCCCTCAACATTGCCACTGTATTGACCTCTATTCAGCTGCTCATGGCAGA
ACCCAATCCTGATGACCCACTAATGGCTGACATTTCTTCAGAATTTAAATAACAAGATAGCTTTTCTC
AAGAAAGCCAAGCAGTGGACAGAGGCTCATGCAAGACAGAAAACAAAAGGCTGATGAAGAGGAGCTAGGCA
CCTCATCAGAAGTTGGTACTCTGAGGAAAGCCATTCCACACAGAAAAGGAAAGGCCAGGCCATTAGGAGG
AATGGAAAAAAGTTTTCCCTGACGTTTCAGAGAGTCTATCCTGGTCCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202115 representing BC029213
Red=Cloning site Green=Tags(s)

MQRASRLKKEHLMLAIEPPPGITCWQEKDQVADLRAQILGGANTPYEKGVFTLEVIIPERYPFEPQVRF
LTPIYHPNIDSSGRICLDILKLPKGAWRPSLNIATVLTSLIQLLMAEPNDDPLMADISSEFKYNKIAFL
KKAKQWTEAHARQKQKADEEELGTSSEVGDSEESHSTQKRKARPLGGMEKKFSPDVQRVYPGPS

TRTRPLE - GFP Tag - V

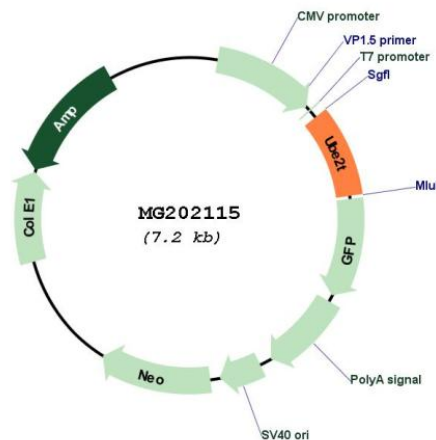
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: BC029213

ORF Size: 614 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: [BC029213](#), [AAH29213](#)

RefSeq Size: 1083 bp

RefSeq ORF: 614 bp

Locus ID: 67196

Cytogenetics: 1 E4

Gene Summary: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Catalyzes monoubiquitination. Involved in mitomycin-C (MMC)-induced DNA repair: acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of FANCD2, a key step in the DNA damage pathway. Also mediates monoubiquitination of FANCL and FANCI. May contribute to ubiquitination and degradation of BRCA1. In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, but may prefer 'Lys-11'-, 'Lys-27'-, 'Lys-48'- and 'Lys-63'-linked polyubiquitination.[UniProtKB/Swiss-Prot Function]