

Product datasheet for **MG206065**

Fetub (NM_021564) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fetub (NM_021564) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fetub
Synonyms: 2310011O17Rik; AI255764; D17980; Gugu
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206065 representing NM_021564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCTGCTCCGACTTCTGGTCTCTGCACCCTGGCTGCATGCTGCATGGCCCGCTCTCCCCAGCCC
 CACCCCTGCCACAACGCCCTCTCACCTCTGCATCCTCTGGGCTGTAACGACTCTGAAGTCTGGCAGT
 TGCAGGATTTGCCCTGCAGAACATCAACAGAGACCAAAAGGATGGCTATATGTTGAGCCTAACAGAGTG
 CATGATGTTCCGGAGCACTACCAGGAAGACATGGGATCTCTGTTCTACCTCACATTGGATGTCTTAGAGA
 CTGACTGCCACGTGCTCAGCAGGAAGGCACAGAAGGACTGCAAACCGAGGATGTTCTATGAGTCGGTTTA
 TGGCCAGTGCAAAGCAATGTTTCACATTAACAAGCCAAGAAGAGTTCTCTACTTACCTGCTTATAACTGT
 ACACCTTCGCCAGTTTCCAAAAGAAAGACTCATACAACGTGCCCTGACTGCCCTAGCCCCATTGACTTGT
 CAAACCCAGTGCTCTGGAAGCTGCCACGGAGTCGCTTGCAAAGTTCAACAGTAAGAGCCCTCAAAAAA
 GTATGAACTCGTCAAAGTCACCAAGGCTATGAACCAAGTGGGTGTCTGGCCCTGCTTACTATGTGGAATAT
 TTGATCAAAGAGGCACCATGTACCAATCCCAGGCCAGCTGTTCCGCTCCAGCACTCTGACTCTGAGCCCG
 TTGGTATTTGCCAAGTTCTACGGTCCAAAGTTCTCTGAGGCACGTTCTCTGATCCAACCCGTAGAAAA
 GTCTGTCACTGTGACTTGTGAGTTCTTCGAATCTCAGGCTCAGGTCCTGGAGATGAGAACCCTGCTGTT
 ACCCAGGGCCCTCAGAACTCCCTCAGAAAAACCGGCCCTACCAGCTCCCCCGTAACTGCACCAA
 GAGGATCCATCCAGCACCTCCCCGAACTGGATGATGAGAAGCCCGAGGAGTCCAAGGGAGGGAGCCCTGA
 GGAAGCCTTTCCTGTGCAGCTGGATCTAACCACCAATCCCAGGGGACACACTAGATGTCTCCTTCTGT
 TACCTGGAGCCTGGGACAAGAAGCTGGTGGTGTGCCTTTCCCTGGAAAGGAACAGCGCTCCGCCGAGT
 GCCCAGGGCCCGAGAAGGAGAACAACCTCTGTTCTCCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206065 representing NM_021564
 Red=Cloning site Green=Tags(s)

MGLLRLLVLCTLAACCMARSPPAPPLPQRPLSPLHPLGCNDSEVLAVAGFALQINNRDQKDGMYLSLNRV
 HDVREHYQEDMGSFLYLTDVLETDCHVLSRKAQKDKPRMFYESVYQGCKAMFHINKPRRVL YLPAYNC
 TLRPVSKRKTHHTCPDCPSPIDLSNPSALEAATESLAKFNKSPSKKYELVKVTKAMNQWVSGPAYVVEY
 LIKEAPTKSQASC SLQHSDSEPVGICQGSTVQSSLRHVPLIQPVEKSVTVTCEFFESQAQVPGDENPAV
 TQGPQKLPQKNTAPTSSPSVTAPRGSIQHLPELDDEKPEESKGGSPEEAFVQLDLTTNPQGD TLDVYSFL
 YLEPGDKKLVVLPFPFGKEQRSACECPGPEKENNPLVLP

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1803_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021564

ORF Size: 1164 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_021564.2](#)

RefSeq Size: 1481 bp

RefSeq ORF: 1167 bp

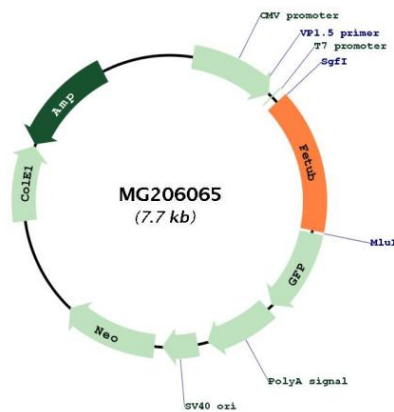
Locus ID: 59083

UniProt ID: [Q9QXC1](#)

Cytogenetics: 16 13.76 cM

Gene Summary: Protease inhibitor required for egg fertilization. Required to prevent premature zona pellucida hardening before fertilization, probably by inhibiting the protease activity of ASTL, a protease that mediates the cleavage of ZP2 and triggers zona pellucida hardening. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206065