

## Product datasheet for MR229653

### Fetub (NM\_001083905) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fetub (NM_001083905) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fetub
Synonyms:	2310011O17Rik; AI255764; D17980; Gugu
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229653 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCTGCTCCGACTTCTGGTCTCTGCACCCTGGCTGCATGCTGCATGGCCCGCTCTCCCCAGCCC  
CACCCCTGCCACAACGCCCTCTCACCTCTGCATCCTCTGGGCTGTAACGACTCTGAAGTCTGGCAGT  
TGCAGGATTTGCCCTGCAGAACATCAACAGAGACCAAAAGGATGGCTATATGTTGAGCCTAACAGAGTG  
CATGATGTTCCGGAGCACTACCAGGAAGACATGGGATCTCTGTTCTACCTCACATTGGATGCTTAGAGA  
CTGACTGCCACGTGCTCAGCAGGAAGGCACAGAAGGACTGCAAACCGAGGATGTTCTATGAGTCGGTTTA  
TGGCCAGTGCAAAGCAATGTTTCACATTAACAAGCCAAGAAGAGTTCTCTACTTACCTGCTTATACTGT  
ACACTTCGCCAGTTTCCAAAAGAAAGACTCATACAACGTGCCCTGACTGCCCTAGCCCCATTGACTTGT  
CAAACCCAGTGCTCTGGAAGCTGCCACGGAGTCGTTGCAAAGTTCAACAGTAAGAGCCCTCAAAAAA  
GTATGAACTCGTCAAAGTCACCAAGGCTATGAACCAAGTGGGTGTCTGGCCCTGCTTACTATGTGGAATAT  
TTGATCAAAGAGGCACCATGTACCAATCCCAGGCCAGCTGTTGCTCCAGCACTCTGACTCTGAGCCCG  
TTGGTATTTGCCAAGTTCTACGGTCCAAAGTTCTCTGAGGCACGTTCTCTGATCCAACCCGTAGAAAA  
GTCTGTCACTGTGACTTGTGAGTTCTTCGAATCTCAGGCTCAGGTCCTGGAGATGAGAACCCCTGCTGTT  
ACCCAGGGCCCTCAGAACTCCCTCAGAAAAACCGGCCCTACCAGCTCCCCCTCGTAACTGCACCAA  
GAGGATCCATCCAGCACCTCCCGAAGTGGATGATGAGAAGCCCGAGGAGTCCAAGGGAGGGAGCCCTGA  
GGAAGCCTTTCTGTGCAGCTGGATCTAACCACCAATCCCAGGGGGACACACTAGATGTCTCCTTCTGT  
TACCTGGAGCCTGGGGACAAGAAGCTGGTGGTGTGCCTTTCCCTGGAAAGGAACAGCGCTCCGCCGAGT  
GCCAGGGCCCGAGAAGGAGAACAACCTCTGTTCTCCACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229653 protein sequence  
 Red=Cloning site Green=Tags(s)

MGLLRLLVLC~~TLA~~AACCMARSPPAPPLPQRPLSPLHPLGCNDSEVLAVAGFALQNI~~NRD~~QKDGMYLSLNRV  
 HDVREHYQEDMGSFLYLTDVLETDCHVLSRKAQKDKPRMFYESVYQCKAMFHINKPRRVLYLPAYNC  
 TLRPVS~~KRK~~TH~~TC~~PD~~CP~~SPIDLSNPSALEAATESLAKFNSKSPSKKYELVKVTKAMNQWVSGPAYVVEY  
 LIKEAPCTKSQASC~~LQ~~HS~~DS~~EPV~~GIC~~Q~~GS~~TVQSSLRHVPLIQPVEKSVTVTCEFFESQAQVPGDENPAV  
 TQGPQKLPQKNTAPTSSPSVTAPRGSIQHLPELDDEKPEESKGGSP~~EAF~~PVQLDLTTNPQGD~~TL~~DV~~S~~FL  
 YLEPGDKKLVVLPFPGKEQ~~RS~~AEC~~PG~~PEKENNPLVLPP

TRTRPLE~~Q~~KLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001083905

**ORF Size:** 1167 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\\_001083905.1](#), [NP\\_001077374.1](#)

**RefSeq Size:** 1535 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 59083

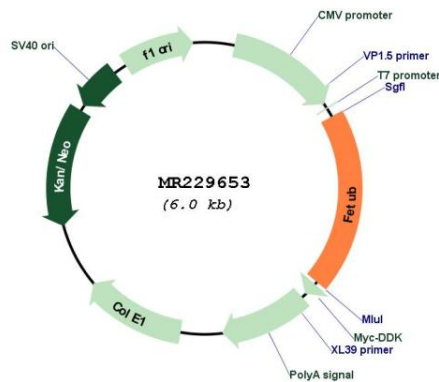
**UniProt ID:** [Q9QXC1](#)

**Cytogenetics:** 16 13.76 cM

**MW:** 42.7 kDa

**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 MR229653