

## Product datasheet for **MG222022**

### Fetub (NM\_001083904) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fetub (NM_001083904) 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:	>MG222022 representing NM_001083904 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGATCTGTCTACCTCACATTGGATGTCTTAGAGACTGACTGCCACGTGCTCAGCAGGAAGGCAC  
AGAAGGACTGCAAACCGAGGATGTTCTATGAGTCGGTTTATGGCCAGTGCAAAGCAATGTTTCACATTAA  
CAAGCCAAGAAGAGTTCTACTTACCTGCTTAACTGTACACTTCGCCAGTTTCCAAAAGAAAGACT  
CATACAACGTGCCCTGACTGCCCTAGCCCCATTGACTTGTCAAACCCAGTGCTCTGGAAGCTGCCACGG  
AGTCGCTTGCAAAGTTCAACAGTAAGAGCCCCTCAAAAAAGTATGAACTCGTCAAAGTCACCAAGGCTAT  
GAACCAGTGGGTGCTGGCCCTGCTTACTATGTGGAATATTTGATCAAAGAGGCACCATGTACCAATCC  
CAGGCCAGCTGTTTCGCTCCAGCACTCTGACTCTGAGCCCGTTGGTATTTGCCAAGTTTCTACGGTCCAAA  
GTTCTCTGAGGCACGTTCTCTGATCCAACCCGTAGAAAAGTCTGTCACTGTGACTTGTGAGTTCTTCGA  
ATCTCAGGCTCAGGTCCTGGAGATGAGAACCCGCTGTTACCCAGGGCCCTCAGAACTCCCTCAGAAA  
AACACGGCCCCTACCAGCTCCCCCTCCGTAAGTGCACCAAGAGGATCCATCCAGCACCTCCCCGAAGTGG  
ATGATGAGAAGCCCAGGAGTCCAAGGGAGGGAGCCCTGAGGAAGCCTTCTGTGCAGCTGGATCTAAC  
CACCAATCCCCAGGGGGACACTAGATGTCTCCTTCTGTACCTGGAGCCTGGGGACAAGAAGCTGGTG  
GTGCTGCCTTTCCCTGGAAAGGAACAGCGCTCCGCCGAGTGCCAGGGCCCGAGAAGGAGAACAACCCCTC  
TGTTCTCCACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222022 representing NM\_001083904  
 Red=Cloning site Green=Tags(s)

MGSLFYLTLDVLETDCHVLSRKAQKDKCKPRMFYESVYQGCKAMFHINKPRRVLYLPAYNCTLRPVSKRKT  
 HTTCPDCPSPIDLSNPSALEAATESLAKFNKSPSKKYELVKVTKAMNQWVSGPAYVVEYLKEAPCTKS  
 QASCSLQHSDEPVGICQGSTVQSSLRHVPLIQPVEKSVTVTCEFFESQAQVPGDENPAVTQGPQKLPQK  
 NTAPTSSPSVTAPRGSIQHLPELDDEKPEESKGGSPPEEAFVQLDLTTNPQGDTLDVSFVLYLEPGDKKL  
 VLPFFPGKEQRSACPCGPEKENNPLVLPP

TRTRPLE - GFP Tag - V

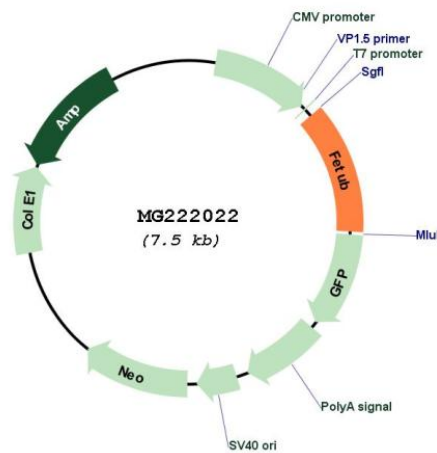
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001083904

**ORF Size:** 924 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001083904.1</a> , <a href="#">NP_001077373.1</a>
<b>RefSeq Size:</b>	1365 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	59083
<b>UniProt ID:</b>	<a href="#">Q9QXC1</a>
<b>Cytogenetics:</b>	16 13.76 cM
<b>Gene Summary:</b>	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]