

## Product datasheet for **MG210907**

### **Ftsj3 (BC012281) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ftsj3 (BC012281) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ftsj3
Synonyms:	AA537063; AU045295; C79843; D11Ertd400e; Epcs3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210907 representing BC012281  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCAAGAAAGGCAAAGTAGGCAAGAGCCGGCGGACAAGTTCTATCACTTGCCAAAGGAGACTGGTT  
 ATCGTTTCGCGCTCTGCCTTCAAACCTGATCCAGCTCAATCGCCGCTTTCAGTTCCTGCAGAAAGCCCGGGC  
 CTTGTTGGACCTGTGTGCTGCGCCTGGCGGATGGCTGCAGGTGGCTGCCAAGTTTATGCCTGTATCCAGT  
 CTTATTGTAGGAGTGGACCTCGTTCCAATCAAGCCTCTCCCAATGTGGTGACTCTCCAGGAGGATATCA  
 CAACAGAACGCTGTAGGCAGGCCCTGAGGAAGGAGCTGAAGACCTGGAAAGTTGATGTTGTGCTTAATGA  
 TGGGGCTCCCAATGTGGGGGCTAGTTGGGTCCATGACGCTTACTCCCAAGCTCACCTAACTCTGATGGCT  
 CTGCGTTTGGCTGTGATTTTTGGCCCGTGGTGGTTGTTTCATCACAAAAGTCTTTCGTTCCCGAGACT  
 ATCAGCCCTTGTGTGGATCTTCCAGCAGCTGTTCCACCGTGTCCAGGCCACGAAGCCCCAAGCCTCTCG  
 CCATGAATCTGCAGAAATCTTTGTAGTCTGTCAAGGATTCTGGCTCCGACAAGTTGATGCTAAATTC  
 TTTGATCCCAAGTTTGCCTTAAAGGAGGTTGAAGTTCAGGCTAAAACCTGTTACTGAGTTGGTGACAAGGA  
 AGAAGCCAAAGGCTGAAGGCTATGCCGAAGGTGACCTTACTCTTTATCACCGAACCTCAGTTACGGACTT  
 CTTGCGAGCTGCCAATCCTGTTGACTTCTCTCCAAGGCCAGCGAAATCTCAATAGATGATGAAGAGTTG  
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 CGGTTTACTAAAGTAGATGACAATAAAGAGGAAGGAGGAGAAAATCCATTGCTGGTACCCTGGAAGAAA  
 AGGCAGTACTGCAGGAAGAGCAAGCTAGCCTGTGGTTCTCCAAGGACGGCTTCAGTGGGATAGAGGATGA  
 TGCTGACGAAGCCCTGGAGATCAGTCAGGCACAGCTGCTGTACAAGAGCCGTGGAAGGAGCAGCAGCCA  
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 CTCAGATAGTGACAGCAGCAGTGTGAGGATGAAGATAGCTGGAAAGTGTCCCGTGGTGTGAAGCGAGGC  
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 GCTGGAACAGACCAAAAAGAAGGCAGAAGCTGTGGTGAATACAGTGGACATCTCAGAACGGGAAAAGGTG  
 GCACAGCTGGCCAGTCCAGTACATACTGTGGACTTGGCATAGCAGTCATTGTTAGAGTTTTTCATCTCG  
 CCTTTAAGGGTGTGAACCACAATAATCTCCAGGATGCAAGCCAAAAGGTCACGCAAGATAGTTGTTGC  
 TCGAATGAAGAAGGATCAGAGAGCACAACAACGGAAGGAACAGAAGAAAAACACAAGCGCAAG

**ACCGTACCGCGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG210907 representing BC012281  
 Red=Cloning site Green=Tags(s)

```

MGKKGKVGKSRDDKFYHLAKETGYRSRSFAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKMPVSS
LIVGVDLVPKPLPNVTLQEDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMA
LRLACDFLARGGCFITKVFRRDYQPLLWIFQQLFHRVQATKPQASRHESAEIFVVCQGFLAPDKVDAKF
FDPKFAFKEVEVQAKTVELVTRKKPKAEGYAEGDLTYHRTSVTDFLRAANPVDFLSKASEISIDDEEL
AQHPATTEDIRVCCQDIKVLGRKELRSLNWRTKLRRYVAKKLEQAKALDISLSEEEEEEGDEEEAVAE
TKQAPEEEEEEREEQLNRTLAEMKAQEVAELKRKKKLLREQRKQRRVELKMDLPGVSIADGETGMFS
LRTIRGQQLLEEVTQGDMAADTFSDLPRDDIYVSDAEDDDTSLESDDLPEELAGVRTHSDLKEQKYL
RFTKVDDNKEEGENPLLVPLEEKAVLQEEQASLWFSKDGFSGIEDDADEALEISQAQLLYKSRKEQQP
TDP PPPPTNLKTEKKSPQGQNEVPKETEAILGTEAVTDPGGEERGNSSDSDSSSEDEDSWKVSRGVKRG
RGSKADEDFEVVPIQDPVKYRILDPEGLALGAVIASSKAKRDLIDNSFNRYAFNEEGELPEWFAQEE
KQHRIRQLPVDKKEVEHYRKRWREINARPIKKVAEAKARKRRMLKKLEQTKKKAEAVVNTVDISEREKV
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```

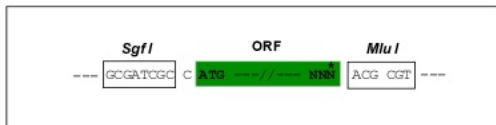
TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

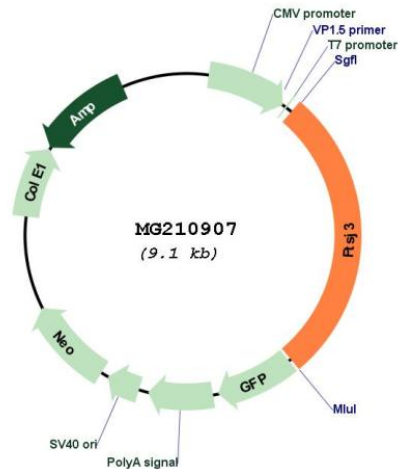
Cloning sites used for ORF Shutting:



```

                                Kozac
                                Consensus
                                Sgf I   Asc I
          EcoR I   BamH I Kpn I   RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

          Hind III   Nhe I   Rsr II   Mlu I   Not I   Xho I   GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC --- ---
                                T   R   T   R   P   L   E   M   E   S   D   -   -   -
          Pme I   Fse I
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop
    
```

**Plasmid Map:**


**ACCN:** BC012281

**ORF Size:** 2516 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:** [BC012281](#), [AAH12281](#)

**RefSeq Size:** 2883 bp

**RefSeq ORF:** 2516 bp

**Locus ID:** 56095

**Cytogenetics:** 11 68.89 cM

**Gene Summary:**

RNA 2'-O-methyltransferase involved in the processing of the 34S pre-rRNA to 18S rRNA and in 40S ribosomal subunit formation.[UniProtKB/Swiss-Prot Function]