

## Product datasheet for **RG210601**

### **FAM168B (NM\_001009993) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FAM168B (NM\_001009993) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FAM168B  
**Synonyms:** MANI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210601 representing NM\_001009993  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATCCTGTTTATAGTCTTGGATCTTCTGGGGTTCCTATGCAAATGCCAAAGGAATTGGTTATCCAG  
CTGGTTTTCCCATGGGCTATGCAGCAGCAGCTCCTGCCTATTCTCCTAACATGTATCCTGGAGCGAATCC  
TACCTTCAAACAGGTTACTCTGGCACACCTTACAAAGTGCCTGTTCCCCACCAGCGGGGTGTG  
CCACCGTACTCCTCCTCCCGAACCCCTACCAGACTGCCGTGTACCCTGTGCGAAGTGCCTACCCCCAGC  
AGAGCCCGTATGCACAGCAAGGCAGTACTACACAGCCGCTGTATGCAGCACCTCCTCAGTCATCCA  
CCACACCACGGTGGTGCAGCCCAACGGCATGCCTGCAACGGTGTACCCTGCTCCCATCCCCCTCCTAGA  
GGCAACGGGGTACCATGGGCATGGTGGCTGGGACCACCATGGCCATGTCAGCAGGTACCCTGCTGACTG  
CTCACTCCCCAACTCCTGTGCCCCCCCACCGGTCACTGTGCCACGTACCGGGCCCCAGGAACGCCAC  
TTACAGCTATGTGCCCCCTCAGTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG210601 representing NM\_001009993  
Red=Cloning site Green=Tags(s)

MNPVYSLGSSGVPYANAKGIGYPAGFPMGYAAAAPAYSPNMPGANPTFQTGYTPGTPYKVSPTS  
PPYSSSPNPYQTAVYPVRSAYPQQSPYAQQGTYYTQPLYAAPPHVIHHTTVVQPNGMPATVYP  
IPPPR  
GNGVTMGVAGTTMAMSAGTLLTAHSPTPVAPHPVTVPYRAPGTPTYSYVPPQW

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001009993

ORF Size: 585 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\\_001009993.2](#), [NP\\_001009993.2](#)

**RefSeq Size:** 5420 bp

**RefSeq ORF:** 588 bp

**Locus ID:** 130074

**UniProt ID:** [A1KXE4](#)

**Cytogenetics:** 2q21.1

**Gene Summary:** Inhibitor of neuronal axonal outgrowth. Acts as a negative regulator of CDC42 and STAT3 and a positive regulator of STMN2. Positive regulator of CDC27.[UniProtKB/Swiss-Prot Function]