

## Product datasheet for **RG229997**

### FAM53A (NM\_001174070) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FAM53A (NM\_001174070) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FAM53A  
**Synonyms:** DNTNP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229997 representing NM\_001174070  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCACACTCATCACTGAGAAGCTGCAGAGCCAGAGCCTGGACGACCTCACCTGCAAGGCGGAGGCTG  
GCCCGTTGCAGTATTCTGCGAAACCCGAACAAGAGCGGTCTGTCTGTTCCCTTTGGAGCTCAACGACCA  
GAGTCCCTGGAAGGTCTTCAGTGGAGGACCGCCCGTCAGAAGCCAGGCAGCCACGGGCCCTGATTTCTCC  
TTCTGCCGGCCTGTCTGCTGCCGCTCACACCATGGGTCTTCAGTGGCAGCCACAGTCCCCGCGCCGAC  
GCGCAGGCTGGGTGCAGCCAGCACCGTGGACCCAGTAAAGCACAGGCTCGTCCACGGCCCCACCGAC  
CAAGCGGCATTGCCGGTCTTGTGAGAACCAGAGGACTTGTGCGCTGCCGGTCCCCCTGGCGCCCCGGC  
AGCTCAAAGTCTGGACTCCAGTCTCAAGAGGCGGTGCGACAGCGGGGAGTGCCACGCGGCAGGGAA  
GCCCGCGCGCCGTCTGCGGAGGAGTGCTGTGGTTCGACCGGTCCCACCTCGCCCGCCACGCCCCGGCC  
GTCCTCCGCCAGCGGGCGCTTCTGGACAGCAGCGAGGGCAGTGCGGGCTCAGGCCCGCTCTGGTGTTC  
GCGGAGTCTGCTTGCCCTCCACGAGGCGCCCGCCGTCCCTCTCACAGGAGCGACTCGCGGGTGCGGGCA  
CTCCCCTGCCCTGGGCCAGCAGCAGCCCCACGTCCACGCTGCGCTGGCGGGGCGCCGTGGGCTGCTCCG  
AGGTGGACAGCCCATCCTTGGACTTCTGAAAATGACCCAGACTTTAAAAAATCAAAAAGCCTTTGCT  
CCCTCAATTACGAAGATGACGATGAGGATGACACCCAGTGAAGACGGTTCTGTCCTCCCATGTGACTC  
CCGGGGCCTCCCTGGCATCACCATGCCTGGCTGCAGCCAGAGGGCCCTCAGGACCAGCCCTGTCCACCCC  
AACCTGTGGGCTCTAGGGAGTCGGTGACCAGTATGGCTCCCGCAGGAGCAGCGGGACCCCCGTGATG  
GGGACAGTGTGGGGAGGAGGGCGTCTCCCCGGGCCGCTGGGAGCTGGACCTGGAGCAGATCGAGAA  
CAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229997 representing NM\_001174070  
 Red=Cloning site Green=Tags(s)

MVTLITEKLQSQSLDDL TCKAEAGPLQYSAETLNKSGRLFPLELNDQSPWKVFSGGPPVRSQAATGPDFS  
 FLPGLSAAAHMGLQWQPQSPRPGAGLGAASTVDPSESTGSSTAPPTKRHCRSLSEPEELVRCRSPWRPG  
 SSKVWTPVSKRRCDSGGSATRQGSFGAVLPRSAVWSTGPTSPATPRPSSASGGFVDSSEGSAGSGLWCS  
 AESCLPSTRRRPSLSQERLAGAGTPLPWASSPTSTPALGGRRGLLRCSQPVLGKRSRRKRREEDA  
 RWTRPSLDFLKMTQTLKNSKSLCSLNYEDDEDTPVKTVLSSPCDSRGLPGITMPGCSQRGLRTSPVHP  
 NLWASRESVTSDGSRSSGDPRDGSVGEEGVFRARWELDLEQIENN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001174070

**ORF Size:** 1194 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\\_001174070.2](#), [NP\\_001167541.1](#)

**RefSeq Size:** 2802 bp

**RefSeq ORF:** 1197 bp

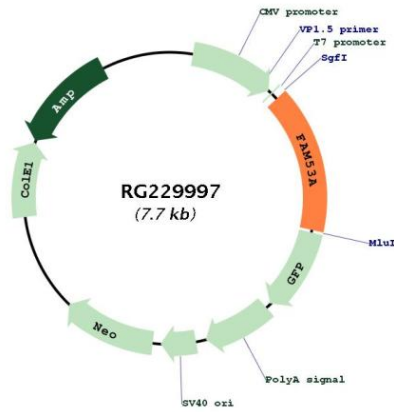
**Locus ID:** 152877

**UniProt ID:** [Q6NSI3](#)

**Cytogenetics:** 4p16.3

**Gene Summary:** May play an important role in neural development; the dorsomedial roof of the third ventricle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG229997