

Product datasheet for **MG219683**

Fam46a (NM_001160378) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam46a (NM_001160378) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam46a
Synonyms:	BAP014; D930050G01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219683 representing NM_001160378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCAGAGATACTTTTGGACTGACCAAGGCCAAGTGGCTTTCGGAGGCACTACATGGCCGAGGGCG
 AAGGGTACTTTGCCATGGCAGAGACGAGCTGACCGGCCGCTTACATCCCCCTGGGTGGTACTTCGG
 CGGCGGGCGCAGCAGCTTCGGCGACCGCTGCTCGGACTATTGCGAAAGCCCCACGGCGCACTGCAATGTG
 CTGAACTGGGAGCAAGTGCAGCGGTTGGACGGCATTCTGAGCGAGACCATCCCGATCCACGGGCGCGGCA
 ACTTCCCCACGCTCGAGCTGCAGCAAGCCTGATTGTGAAGGTGGTGAAGGAGGCGCTGGAAGAGAAGGG
 CATAGGTGTCCGCGACGTGCGCCTCAACGGCTCAGCCGCCAGTCACGTCCTGCACCAGGACAGTGGCCTA
 GGCTACAAGGACCTGGACCTCATCTTCTGCGCTGACCTGCGTGGGAAGAGGAGTTTCAGACTGTGAAGG
 ACGTCGTTCTGGATTGCCTGTTAGACTTCTTGCCGAAGGGGTGAACAAGGAGAAGATCACACCGCTCAC
 TCTCAAGGAGGCTTATGTGCAGAAAATGGTTAAAGTGTGCAATGATTCTGACCGGTGGAGCCTTATATCC
 CTGTCAAACAACAGTGGCAAAAAATGTGGAGCTGAAGTTTGTGGATTCCCTGCGGAGGCGAGTTTGAATTCA
 GTGTAGATTCTTTTCAAATCAAATTAGACTCTCTTCTCCTCTTTTACGAGTGTTACAGAGAACCCGATGAC
 TGAGACATTTACCCACCATCATCGGTGAGAGTGCTATGGTGAATTTCCACGAAGCCTTTGATCACCTT
 TGCAACAAGATCATTGCCACCAGGAACCCAGAGGAAATAAGAGGGGGAGGCGCTTAAAGTACTGCAATC
 TCTTAGTGCGGGGCTTCAGGCCTGCCTCCGAGGAGATCAAGACCTCCAGAGGTACATGTGTTCCCGGTT
 TTTTATTGACTTCTCAGACATCGGAGAGCAGCAGAGAAAGCTGGAGTCTACTTGAGAACCCTTCTGTCG
 GGCTTGAAGACCGCAAGTATGACTATCTCATGACCTTCATGGAGTGGTAAACGAGAGTACGGTGTGCC
 TGATGGGACATGAAAGGAGGCAGACTTTAAACCTTATCACCATGCTGGCAATCCGGGTGCTAGCTGACCA
 AAATGTCAATTCCTAATGTGGCTAATGTCACTTGCTATTACCAGCCGGCCCTATGTTGCAGATGCTAAC
 TTTAGCAATTACTACATTGCACAAGTTCAGCCCGTGTTCACATGCCAGCAGCAGACATACTACTTGGT
 TACCCTGCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219683 representing NM_001160378
 Red=Cloning site Green=Tags(s)

MHQRYFWDQGGVAFGGHYMAEGEGYFAMADEL TGGPYIPLGGDFGGGSSFGDRCSDYCESPTAHCNV
 LNWEQVQLDGLSETIPIHGRGNFPTLELQPSLIVKVRRRLEEKIGVDRVRLNGSAASHVLHQDSGL
 GYKDLDLIFCADLRGEEEFQTVKDVLDCLLDFLPEGVNKEKITPLTLKEAYVQKMVKVCNDSRWSLIS
 LSNNSGKNVELKFVDSLRRQFEFSVDSFQIKLDSLLL FYECSENPMTETFHPTIIGESVYGDFHEAFDHL
 CNKIIATRNPPEIRGGGLLKVCNLLVRGFRPASEEIKTLQRYMCSRFFIDFSDIGEQRKLESYLQNHFV
 GLEDRKYDYLMTLHGTVNESTVCLMGHERRQTLNLIITMLAIRVLADQNVIPNVANVTCTYYPAPYVADAN
 FSNYIIAQVQPVFTCQQTYSTWLPEN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001160378

ORF Size: 1341 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

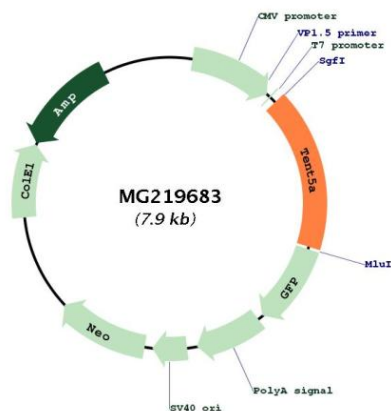
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001160378.1](#), [NP_001153850.1](#)

RefSeq Size: 5479 bp
 RefSeq ORF: 1344 bp
 Locus ID: 212943
 Cytogenetics: 9 E3.1

Product images:



Circular map for MG219683