

Product datasheet for **RG219638**

FAM123A (AMER2) (NM_199138) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM123A (AMER2) (NM_199138) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM123A
Synonyms:	FAM123A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219638 representing NM_199138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACGAGCCGGAGCCGCGCGCGCGGGCTGTACGAGAGCGCGCGGAGCTGGCGCGTCCGTGG
 GGGTCTGCAGGAGGAAGCGGAGGCCGGGGCGGGACCGGGACCTCGCGGCAGACATGGACTTGCAATTG
 TGAATGTGCCCGCAAACGCCGCGCGCGAGCCCGCTCGGGGAAGATTAAATAAGCTGCCTTCAAATTA
 TTCAAGAAGAGGAAATCGGGTGGCACCATGCCAGCATTTTGGGGTCAAAAACAAAGGGGACGGGAAAA
 GCTCGGGTCCGACGGGGCTGGTGAAGAGCAGGACCCACGACGACTTGCCGAGGTGCTGGTCTGGAGAG
 CGGCAGGAAGGAGAGCCGCGCGCGGGGGCGACAGCGCGGGGGCGCGGGGGGGCGGCCGAACCCGGGG
 CCCCCAGAGCCGAGGGCCCGCGGGGGCTCCCTCGCCAGCAGCTCGGTGGCAAGTCGCACAGCTTCT
 TCTCGTCTGAAGAAGAACGGGCGCTCGGAAAACGGCAAGGGAGAGCCTGTGGACGCGAGCAAGGCCGG
 CGGCAAAACAAAGCGGGGGCTGCGGGGGCTGTTACGCGCATGCGCTGGCACAGGAAAGACAAGCGGGCC
 AAGGCGGAGGCCGCGGAGGGGCGCGCGCCGGGGCGGGCTTGATCCTACCGGCTCGCTACCGCCAGCC
 TGGAGTGCCTCAAGGAGGAGACGCCAGAGCCGCGCGGAGCCGAGGAGCCAGCCAGGAGCCCGCGG
 AGACCCAGCAGGCTGTGGAGATATTATTCAGACCAAGAGGAAGAGGAGGTCCAGCTGTGACAAGCAT
 GTCCCCGGGCCAGGCAAGCCGGCTCTGTCTAAAAAGAACCCCGCGTGGTGGCCTACCAAGGAGGCGGGG
 AAGAGATGGCCAGCCCGGACGAGGTGGACGACCTATCTACAGGAGTTCTGGGACATGCTCTCCAGAC
 CGAGGAGCAGGACCCGAGCCCCAGGAGGGCGCGGCTAAGGTGGCAGCTGCGCTGGAAACCAAGTGGTG
 CCCGAGACCCCCAAAGACACAGGTGTGTGGAAGCGGCCAAGGACGCGTCTCGGTCAAGCGCAGGAGGC
 TCAACCGGATTCCCATCGAGCCCCATCTAAGGAGGAGCCCAAGCACCCGAGAAGGAGCAGCAGGAAGG
 CGTCCCCAACAGCGACGAGGGCTACTGGGACTCCACCACGCCAGGCCAGAGGAAGACAGCTCGAGCAGC
 GGAAGAAGGCGGGCATCCCCGGGATAGCTACAGCGGGGACGCGCTCTATGATCTCTATGCTGACCCGG
 ACGGAAGTCCAGCAACCCTTCTGGAGGAAGGACAACGAGGAGACGCTCCTCCTGTCCCGTTAAAGCC
 CGTATCTCCAGGCACCATCACCTGTCCACTGCGAACACGAGGAGCTTGTGAAGGACTCTAAGATCCCT
 ATTAGCATCAAGCACCTGACCAACCTTCCATCTAGCCATCCCGTGGTGCACGCAACCTCCAGGAGTG
 AGATGCCCAGAACAAAAATCCCGGTTTCAAAGTGCTGGTCCGAGAGTCAGCAACCGGGGCTTGGCTGG
 GACCACCATCAGAGCAACGGCTGCCACGACAGTGCCAAAAAGTTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219638 representing NM_199138
 Red=Cloning site Green=Tags(s)

METSRSRGGGAVSERGGAGASVGVCRKAEAGAGTGLAADMDLHCDCAAETPAAEPPSGKINKAAFKL
 FKRRKSGGTMPISIFGVKNKGDKSSGPTGLVRSRTHDGLAEVLVLESGRKEEPRGGGDSGGGGGGRPNPG
 PPRAAGPGGSLASSVAKSHSFFSLLKKNGRSENGKGPVDASKAGGKQKRGLRGLFSGMRWHRKDKRA
 KAEAAEGRAPGGGLILPGSLTASLECVKEETPRAAREPEEPSQDAPRDPAGCGDIIADQEEEAGPSCDKH
 VPGPGKPALSKKNPGVVAYQGGGEEMASPDVDDTYLQEFWMLSQTEEQGPEPQEGAAKVAAALETKVV
 PETPKDTRCVAEKDASSVKRRRLNRIPIEPHPKEPKHPEKEQEGVPNSDEGYWDSTTPGPEEDSSSS
 GKKAGIPRDSYSGDALYDLYADPDGSPATLPGGKDNEETSSLRSLKPVSPGTITCPLRTPGSLKDKSKIP
 ISIKHLNLPSSHPVVHQPSRSEMPRTKIPVSKVLVRRVSNRGLAGTTIRATACHDSAKKL

SGP**TRTRRLE** – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_199138

ORF Size: 1656 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_199138.2](#), [NP_954589.1](#)

RefSeq Size: 2841 bp

RefSeq ORF: 1659 bp

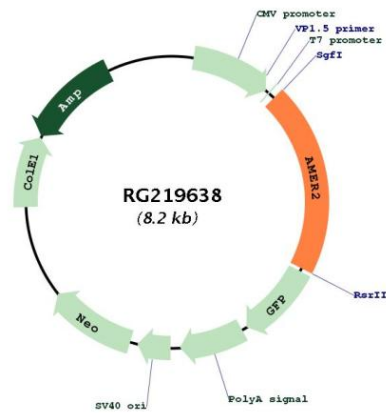
Locus ID: 219287

UniProt ID: [Q8N7J2](#)

Cytogenetics: 13q12.13

Gene Summary: Negative regulator of the canonical Wnt signaling pathway involved in neuroectodermal patterning. Acts by specifically binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), translocating to the cell membrane and interacting with key regulators of the canonical Wnt signaling pathway, such as components of the beta-catenin destruction complex.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219638