

Product datasheet for **RC219638**

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:	Myc-DDK
Symbol:	FAM123A
Synonyms:	FAM123A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC219638 representing NM_199138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGACGAGCCGAGCCGCGCGCGCGGGCTGTACGAGCGCGCGGAGCTGGCGCGTCCGTGG
 GGGTCTGCAGGAGGAAGCGGAGGCCGGGGCGGGACCGGACCCTCGCGGCAGACATGGACTTGCAATTG
 TGAATGTGCCCGCAAACGCCGCGCGCGAGCCCGCTCGGGGAAGATTAAATAAAGCTGCCTTCAAATTA
 TTCAAGAAGAGGAAATCGGGTGGCACCATGCCAGCATTTTGGGGTCAAAAACAAAGGGGACGGGAAAA
 GCTCGGGTCCGACGGGGCTGGTGAAGGAGCAGGACCCACGACGACTTGCCGAGGTGCTGGTCTGGAGAG
 CGGCAGGAAGGAGGAGCCGCGCGCGGGGGCGACAGCGCGGGGGCGCGGGGGGGCGCCGAACCCGGGG
 CCCCCAGAGCCGAGGGCCCGCGGGGGCTCCCTCGCCAGCAGCTCGGTGGCAAGTCGCACAGCTTCT
 TCTCGTCTGAAGAAGAAGCGGGCTCGGAAAACGGCAAGGGAGAGCCTGTGGACGCGAGCAAGCCGG
 CGGCAAAACAAAGCGGGGGCTGCGGGGGCTGTTACGCGCATGCGCTGGCACAGGAAAGACAAGCGGGCC
 AAGGCGGAGGCCGCGGAGGGGCGCGCGCCGGGGCGGGTTGATCCTACCGGCTCGCTACCGCCAGCC
 TGGAGTGCCTCAAGGAGGAGACGCCAGAGCCGCGCGGAGCCGAGGAGCCAGCCAGGACGCCCGCG
 AGACCCAGCAGGCTGTGGAGATATTATTCAGACCAAGAGGAAGAGGAGGTCCAGCTGTGACAAGCAT
 GTCCCCGGGCCAGGCAAGCCGGCTCTGTCTAAAAAGAACCCCGGCGTGGTGGCCTACCAAGGAGCGGGG
 AAGAGATGGCCAGCCCGGACGAGGTGGACGACCTATCTACAGGAGTTCTGGGACATGCTCTCCAGAC
 CGAGGAGCAGGGACCCGAGCCCCAGGAGGGCGCGGCTAAGGTGGCAGCTGCGCTGGAAACCAAGGTGGT
 CCCGAGACCCCCAAAGACACAGGTGTGTGAAGCGGCCAAGGACGCGTCTCGGTCAAGCGCAGGAGGC
 TCAACCGGATTCCCATCGAGCCCATCTAAGGAGGAGCCCAAGCACCCGAGAAGGAGCAGCAGGAAGG
 CGTCCCCAACAGCGACGAGGGCTACTGGGACTCCACCACGCCAGGCCAGAGGAAGACAGCTCGAGCAGC
 GGAAGAAGGCGGGCATCCCCGGGATAGCTACAGCGGGGACGCGCTCTATGATCTCTATGCTGACCCGG
 ACGGAAGTCCAGCAACCCTTCTGGAGGAAGGACAACGAGGAGAGCTCCTCCCTGTCCCGTTAAAGCC
 CGTATCTCCAGGCACCATCACCTGTCCACTGCGAACACGAGGAGCTTGTGAAGGACTCTAAGATCCCT
 ATTAGCATCAAGCACCTGACCAACCTTCCATCTAGCCATCCCGTGGTGCACGCAACCTCCAGGAGTG
 AGATGCCCAGAACAAAAATCCCGGTTTCAAAGTGCTGGTCCGAGAGTCAGCAACCGGGGCTTGGCTGG
 GACCACCATCAGAGCAACGGCTGCCACGACAGTGCCAAAAAGTTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219638 representing NM_199138
 Red=Cloning site Green=Tags(s)

METSRSRGGGAVSERGGAGASVGVCRRAEAGAGTGTLAADMDLHCDCAETPAEPPSGKINKAAFKL
 FKRRKSGGTMPISIFGVKNKGDKSSGPTGLVRSRTHDGLAEVLVLESGRKEEPRGGDSGGGGGGRPNG
 PPRAAGPGGSLASSSVAKSHSFFSLLKKNRSENGKGEVPDASKAGGKQKRGLRGLFSGMRWHRKDKRA
 KAEAAEGRAPGGGLILPGSLTASLECVKEETPRAAREPEEPSQDAPRDPAGCGDIIADQEEEAGPSCDKH
 VPGPGKPALSKKNPGVVAYQGGGEEMASPDEVDDTYLQEFWMLSQTEEQGPEPQEGAAKVAAALETKVV
 PETPKDTRCVAEKDASSVKRRRLNRIPIEPHPKEPKHPEKEQQEGVPNSDEGYWDSTTPGPEEDSSSS
 GKKAGIPRDSYSGDALYDLADPDGSPATLPGGKDNEETSSLRSLKPVSPGTITCPLRTPGSLKDKSKIP
 ISIKHLNLPSSHPVVHQPSRSEMPRTKIPVSKVLVRRVSNRGLAGTTIRATACHDSAKKL

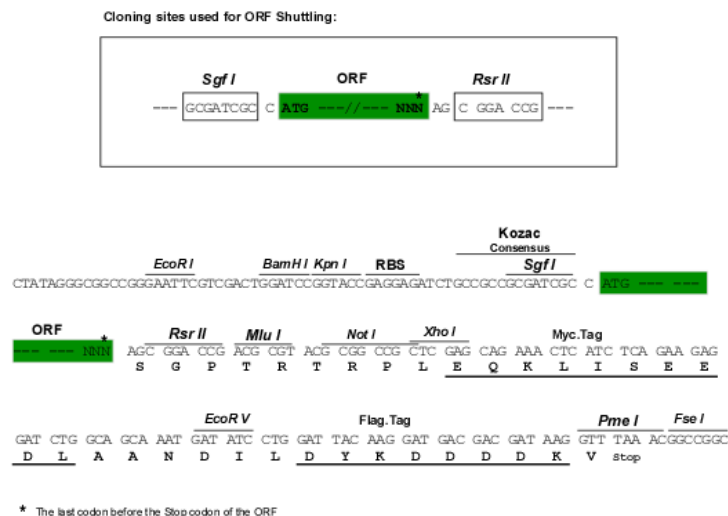
SGPTRTRRLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk8019_b02.zip

Restriction Sites:

SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_199138.2](#), [NP_954589.1](#)

RefSeq Size: 2841 bp

RefSeq ORF: 1659 bp

Locus ID: 219287

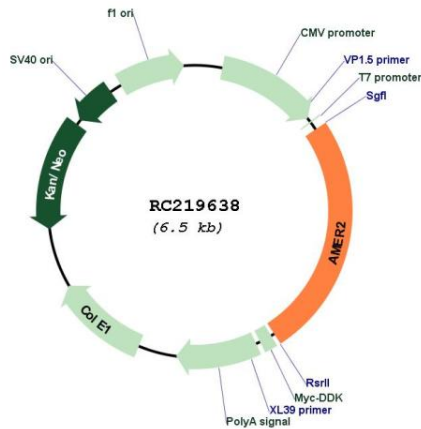
UniProt ID: [Q8N7J2](#)

Cytogenetics: 13q12.13

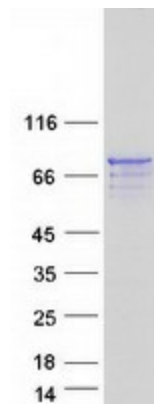
MW: 57.4 kDa

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 RC219638



Coomassie blue staining of purified AMER2 protein (Cat# [TP319638]). The protein was produced from HEK293T cells transfected with AMER2 cDNA clone (Cat# RC219638) using MegaTran 2.0 (Cat# [TT210002]).