

## Product datasheet for **RG226218**

### **FAM123C (AMER3) (NM\_001105194) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM123C (AMER3) (NM_001105194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM123C
Synonyms:	FAM123C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226218 representing NM\_001105194  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTGAAGAGAGGAAAGACCTTCATCAAGTCCAGCCTGCAGGTTTCCACGAGAAACCCAGACC  
 CAGCAGCCGTGGCTGCAGCCAGGGAGGGGACAGGCCCTGGTCAGTCCTTCCAGGAGGGCAACAGAGGCC  
 CCACAGTGAGAAGGGCCCCAAGCCAGCCCAAGTCCCAAGAATACGACAGATGCCCAACAAGGGGCG  
 CAGCTGGACCCAAAGGGGACCCGAGCCCTCTGTGGAGCCACCTTCAAACCGGTGCGAAAGTGAAGA  
 CTCACGACAGCATGTCTGGGGCAGGCAGGGCCACGGCTGCCACAGGGCAGCTGGTGGCAGTGAAGCTT  
 CCCGGCTCCCGGGCAGCCGGCGCATGATCGACTACCGCCACTTTGTGCCCCAGATGCCCTTTGTGCCA  
 GCTGTGGCCAAGAGCATCCCGAGGAAGAGGATTTCCCTGAAGAGGCCAAGAAGTCTTTCGGAACCTAT  
 TCCACATTCGGAGAAACAAGACTGAGGACTTGGCCTCGTGGCGCCGAGGGGAAAAGCTGCCCTCCCC  
 AGGGGACCCGTGACACCTGGGGGGCGGGAAGCAAAGCCTTCTCCCCCGGGTGAAGGGCCGGGGCTG  
 GACGGCTGTGCCAGGACTGTTGGACAGCGAGCTCCTGGCCGATGCATCCTTTGGTCTCTGCAGGGCCC  
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 GAGCTCGGTGCCATCTCTGGAGCTGAACGAGGGCCCGGAGAGCCCAACCCAGGCTGCTCAGGGCCTGGAG  
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 CCCCTGCCCCGTCAGGGACCTCGCAGCGGCTCAAAGCCAGCTCCATCGACACAGGCACCCCAAGA  
 GGAGCAGCCCGAATCCGTGTCCACAAGTGAAGGGCTACTATGATTCTTCTCGCCAGGACTTGAGGA  
 GGACAAGAAGGAAGCTGAGAGCCAGGACTCCTGCCGCCACCTTCCACGGGACAGCTACAGTGGGGAC  
 GCCCTCTACGAGCTTCTCACGACCCAGCGAGGGTCTCTTGGCCCCAGCCAGATGATGACCTGTGCG  
 TGTCTGAGAGTCTGTGAGGGCCGGCCCTGGGGACGCCACTGTCCATATGCAGTTCGAGTGGGGCCGA  
 GGAGAACTTGGCCCCAGCACCAGGCCCTGACCTGCTCAGCCAGGGCTTCTACAGAGCTCCTGGAAGGGC  
 AAGGAGTGCCTGTGAAGCTGTGTGACTGAGCTCGCCATCACCATGGGCATCGTCAGCTGGCTGCGCC  
 GAGGCCACCCAGCCCGTCCCCACCCACCCTGGGCAGCTGCAGCTCCACCTGGTTCAGGGAGCCCC  
 TAGGGCACCCACAGAGAAGCTGGGGGCGAGGGAGGGCCTGGCCTCAGATGCAGGGGGGGCAGAGTTTGC  
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 CCTCGGAGGGGCCACACAAGGGACTGGCACACTGTCCAGGGATGCCTCTCGAGAGGAAGAGACAGGAGG  
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 TCCGAGGGCCCTGGAGGCCAGGTACGGAGGTGACTCTGGATGCAGAGCCATGCTGGCAGGCTGTGT  
 GGCCCGTGTGGCAGCCCTGAAGATCAGCTCAAACGAACAGCCCCGGCCGATGGCTCCAAGGCAAGAC  
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 GCTCCCCAGCATGACCACCATCCATGGCCTACCCTACTCAGCCAGCACACAGGACCAGAGGTGTGAGA  
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 GAGGACCAGCCCTTGCAGCTCAGCACAGAGGCTGTGGAGCAGGTGGCACACGGCAGCCAGCTGGACTCTG  
 AGCCCCGCTCAGCCCTGCTGCCGGTGGAGTTCAGGGCCACCATCCAGAAAGCCTGGCCTCACTTT  
 GAACAGCCAGCAGGAAGGGGGGTCTCTGCAAGTCCCCAGAATGCCGCTGCAGCCTCCTGGCCGTGAG  
 GGCTCCTCTGTGGCCAGCCAGAAGTGGGGCCTCTGGCCAGCCATGGCTGAGCCCATCTG

**ACGGTACGGGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG226218 representing NM\_001105194  
Red=Cloning site Green=Tags(s)

```
MELKRGKTFIKSSLQVSHEKPPDPAAVAAAAREGTGPWSVLPGGQQRPHSEKGPQASPSAQEYDRCPNKG  
QLDPKGGPAALCGATFKPVKCKTHDSMSGAGRATAATGQLVGSASFPGSPGSRMIDYRHFVPQMPFVP  
AVAKSIPRKRIKRPKCFRNLFHIRRNKTEDLASLAAEGKSLSPGDPSPGGRRSKAFLPPGEGPGL  
DGLCQDLLDSELLADASFGLCRALCEDVASLQSFDSLTCGGEVFADESSVPSLELNEGPESTQAAQGLE  
SKVPRGPLQGSVEQLASPAQNEASDFTRFWDSVNRSVRQQRALLGPWLSGPQGTDRDQSRDLTAGLAE  
PLCPCRDPRSGSKASSIDTGTKSEQPESVSTSDGYYSFSPGLEEDKKEAESPGTPAATFPRDSYSGD  
ALYELFHDPSSEGLGSPDDDLVSELSGPALGTPLSICFRVGAENLAPAGPDLLSQGFLQSSWKG  
KECLLKLCDTELAITMGI VSWLRRGPTPRAPPTPGQAAPPQSQAAPRAPTEKLGREGLASDAGGATVC  
SAPSRQELWAHPGTTGLLAGESKALGGATQGTGTL SRDASREEE TRGHSEGLFSSMESAASTTTDTSKN  
KAPVPSTWPCSQKEPQVGLGCFRGPWRPGHGGDTLDAEPLAGCVARVAALKISSNEQPPAAWPPRQD  
MGSGFLGQRWARGPDMLEQKQSSSSPMTTIHGLPYSASTQDQRCRDRVQDL SWLRVEPTGLGVQAWASV  
EDQPLQLSTEAVEQVAHGSQLDSEPRSAPAARWSSQGHHPESLGLTLNSQQEGGVSASAPECRCSLLARE  
GLLCGQPEV GASGPMAEPHL
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001105194

ORF Size: 2583 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\\_001105194.1](#), [NP\\_001098664.1](#)

**RefSeq Size:** 6172 bp

**RefSeq ORF:** 2586 bp

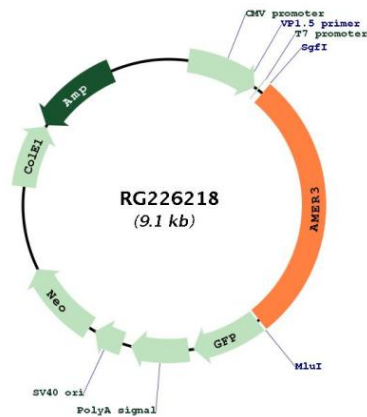
**Locus ID:** 205147

**UniProt ID:** [Q8N944](#)

**Cytogenetics:** 2q21.1

**Gene Summary:** Regulator of the canonical Wnt signaling pathway. Acts by specifically binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), translocating to the cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG226218