

Product datasheet for **MG225815**

Pikfyve (NM_011086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pikfyve (NM_011086) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pikfyve
Synonyms:	5230400C17Rik; p235; Pip5k; Pip5k3; Pipk5k3; PipkIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225815 representing NM_011086 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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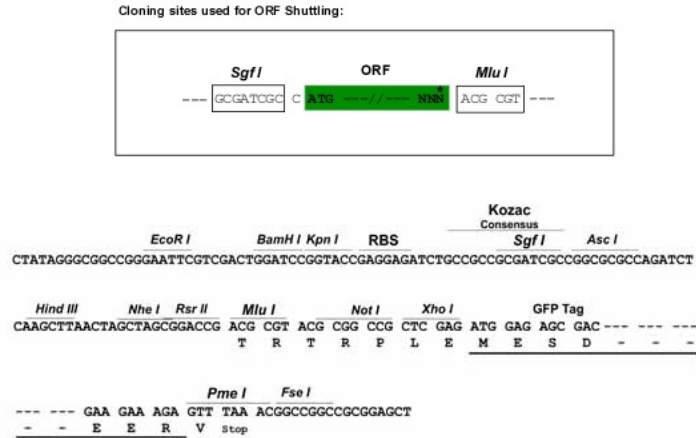
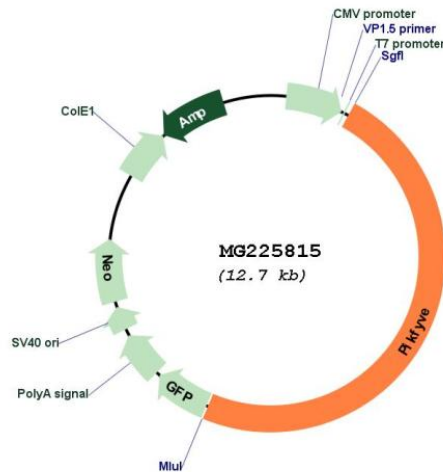
Protein Sequence:

>MG225815 representing NM_011086
 Red=Cloning site Green=Tags(s)

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 HFLSSHLIIDYSLLVGRDDTSNELVVGIIIDYIRTFTWKKLEMVVKSTGILGGQGMPTVVSPELYRTRF
 CEAMDKYFLMVPDHWGLDLNC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_011086

ORF Size: 6156 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_011086.2](#), [NP_035216.2](#)

RefSeq Size: 11255 bp

RefSeq ORF: 6159 bp

Locus ID: 18711

UniProt ID: [Q9Z1T6](#)

Cytogenetics: 1 C3

Gene Summary: The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Catalyzes the phosphorylation of phosphatidylinositol 3-phosphate on the fifth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 3,5-bisphosphate. Required for endocytic-vacuolar pathway and nuclear migration. The product of the reaction it catalyzes functions as an important regulator of vacuole homeostasis perhaps by controlling membrane flux to and/or from the vacuole. [UniProtKB/Swiss-Prot Function]