

## Product datasheet for MR225815

### Pikfyve (NM\_011086) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pikfyve (NM\_011086) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pikfyve  
**Synonyms:** 5230400C17Rik; p235; Pip5k; Pip5k3; Pipk5k3; PipkIII  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225815 representing NM\_011086  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCACAGATGACAAGAGTTCCTCCGACACTGGACTCTGCTAATGATTTGCCTCGCTCTCTGCCAGTC  
 CTTCTCACCTCACTCACTTTAAACCTTGACTCCTGACCAGGATGAGCCCCCTTCAAGTCAGCATATAG  
 TTCTTTTGTAAACCTTTTCGTTTTAAACAAGAGCGAGGAGAAGGGGGCCAAGGAGAGCAGCAGTCTCCG  
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 AACAGCTTAATGAGGAGCTCCACCGCGCTCTCAGTGTAGAGAACACTTTGCCACATCCTCAGGAGAG  
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 AGCCTCAGCACAGTATTGAAACGCCTCAAAGAAATCATGGAAGGAAAAAGCCAGGACAGTACCTGAAGC  
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 TGATCCAAGCGAACCTCGGACACCAGTTGGGAGTAGAAAAAGCCAGTCGTAACATATTCTTAGAGGATGAT  
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 AAGAGGATGCTGGGAAGTCTCCTGCTCGAAACAGATCAGCCAGCATTACTAATCTGTCACTGGATCGGTC  
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 GAGACGACTGAGGATGAACGCAAATTTCTTCTGGACAGTCTCAGTTAAAGGATCTGTGGAAGAAAAATCT  
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ATTGCTGAAGAAGGTGACGATAATTTGGCTAAGTATTTGGTTTCTGACACTGGAGGACAGCAGCTCTCAA  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >MR225815 representing NM\_011086  
 Red=Cloning site Green=Tags(s)

MATDDKSSPTLDSANDLPRSPASPSHLTHFKPLTPDQDEPPFKSAYSSFVNLFRFNKERGEGGQGEQQSP  
 SSSWASPQIPSRQTQSVRSPVPYKQLNEELHRRSSVLENTLPHPQESTDSRRKAEPACGGHDPRTAVQLR  
 SLSTVLKRLKEIMEGKSQSDSLKQYWMPDSQCKEYDCSEKFTFRRRHHCLCGQIFCSRCCNQEIPGK  
 FMGYTGDLRACTYCRKIALSYAHSTDSNSIGEDLNALSDSTCSVILDPSEPRTVPVGSRKASRNIFLEDD  
 LAWQSLIHPDSSNSALSTRLVSVQEDAGKSPARNRSASITNLSLDRSGSPMVPSYETSVSPQANRNYIRT  
 ETTEDEKILLDSAQLKDLWKKICHHTSGMEFQDHRWLRTHPNCIVGKELVNWLIIRNGHIATRAQIAI  
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 YVTEEVTSSSEDQRKYALTFKQELKDVILCISPVITFREPFLLTEKGMRCSTRDYFPEQIYWSPLLNKEVK  
 EMESRRKQLLRDL SGLQGMNGSVQAKSIQVLP SHELVS TRIAEHLGDSQTLGRMLADYRARGGRIQSKH  
 LDPFVHSKDACTSGGKSGNKTESDEERGLIPSDVIWPTKVDCLNPANHQRLCVLFSSSSAQSSNAPSAC  
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 QHTILTSWCRICKQVTPVVALSNESWSMSFAKYLELRFYGHQYTRRANAEP CGHSIHHDYHYQFYSYNQM  
 VASFSYSPIRLLEVCVPLPKIFIKRQAPLKVSLQLDQKDFQKVSQVYLAVDERLASLKTDTFSKTRREEK  
 MEDIFAQKEME EGEFKNWTEKMQARLMSSSVDTPQQLQSIFESLIAKKQSLCEVLQAWNSRLQDLFQQEK  
 GRKRPSVPPSPGRLRQGEESKINAMDTSPRNI SPGLHNGEKEDRFLTTLSSQSSTSTHLQLPTPPEALA  
 EQVVGPTDLDASGSEDFVDFGHLLGSTDSQVKEKSTMKAIFANLLPGNSYNPIPFDPDPKHLYMEYEHE  
 RVPIAVCEKEPSSIIAFALSCKEYRNAL EELSKATLRNSAEGLPANSALDNRPKSSSPIRLPEISGGQT  
 NRTVEAEPQPTKKASGMLSF FRGTAGKSPDLSSQKRETLRGADSAYYQVGGQAGKEGLESQGLEPQDEV  
 GDTQKQLTNPHVELQFSDANAKFYCRLYYAGEFHKMREVILGSSEEFIRSLSHSSPWQARGGKSGAAF  
 YATEDDRFILKQMPRLEVQSFLDFAPHYFNYITNAVQQKRPTALAKILGVYRIGYKNSQNNTEKLDLLV  
 MENLFYGRKMAQVFDLKGSLRNRNVKTDGTGKESCDVLLDENLLKMVRDNPLYIRSHSKSVLRTSISHSDA  
 HFLSSHLIIDYSLLVGRDDTSNELVVGIIIDYIRTFWTKKLEMVVKSTGILGGQGMPTVVSPELYRTRF  
 CEAMDKYFLMVPDHWGLDLNC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1361\\_a07.zip](https://cdn.origene.com/chromatograms/ja1361_a07.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**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

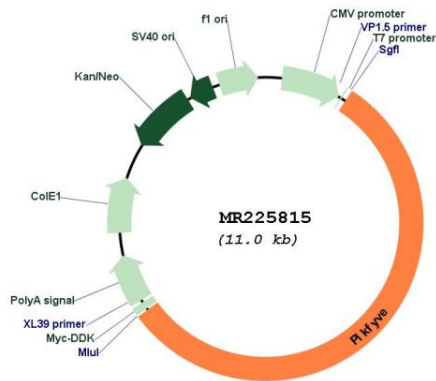
**UniProt ID:** [Q9Z1T6](#)

**Cytogenetics:** 1 C3

**MW:** 232.5 kDa

**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]

**Product images:**



Circular map for MR225815