

Product datasheet for **MC225150**

Pikfyve (NM_011086) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pikfyve (NM_011086) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pikfyve
Synonyms: 5230400C17Rik; p235; Pip5k; Pip5k3; Pipk5k3; PipkIII
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225150 representing NM_011086
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACAGATGACAAGAGTTCCTCCGACACTGGACTCTGCTAATGATTTGCCTCGCTCTCTGCCAGTC
 CTTCTCACCTCACTCACTTTAAACCCTTGACTCCTGACCAGGATGAGCCCCCTTCAAGTCAGCATATAG
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TAAGTGATGCCTTCATCAAAGAGTCCTTATTTAATCGACGAGTAGAGGAAAAATCCAAAGAGCTGCCTTT
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TAGTGCTTTAGATAACAGACCTAAGAGTAGCAGCCCTATTAGACTACCTGAAATCAGTGGAGGACAGACA
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CAGCAGGGAAGAGCCCTGATCTGTCTTCCAGAAGAGGGAGACCTTGCAGGGGCAGACAGTCTTACTA

CCAGGTTGGGCAGGCCGCAAGGAGGGGTTGGAGAGTCAAGGCCTGGAGCCTCAAGATGAAGTAGATGGA
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 TATGCCACCGAAGATGATAGATTCATTCTGAAGCAAATGCCTCGTTTGAAGTCCAGTCTTTCCTTGACT
 TTGCACCACACTACTTCAATTATATCACAAATGCTGTTCAACAAAAGAGGCCACCGCCTTGCTAAAAT
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 TCGAGACAACCTCTCTATATTCGTTCCCATTCCAAATCTGTGCTGAGAACCTCCATCCACAGCGACGCC
 CATTTCCTTTCCAGCCACCTCATTATAGACTATTCTCTGCTGGTTGGGCGAGATGACACTAGCAATGAGC
 TTGTGGTTGGCATCATAGATTACATTCGAACATTTACATGGGACAAAAA ACTTGAGATGGTTGTGAAGTC
 AACAGGAATTTTAGGAGGACAAGGTA AAATGCCAACTGTGGTCTCTCCAGAGTTGTATAGGACTAGATT
 TGTGAAGCAATGGACAAGTATTTCTTGATGGTCCAGACCACTGGACAGGGTTGGATCTGAATTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_011086
- Insert Size:** 6159 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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]

Transcript Variant: This variant (2) contains an alternate in-frame exon and lacks another alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.