

## Product datasheet for **MC225146**

### Pi4ka (NM\_001001983) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pi4ka (NM\_001001983) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pi4ka  
**Synonyms:** Pik4ca  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225146 representing NM\_001001983  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCCAGTAGATTTTCATGGAATCTTCCAAGTACAGTAAAGACGGAGAGATGCAGTGATTGCATTGG  
 GCATTTTTCTCATTGAATCTGATCTTCAGCACAAAGATTGTGTTGTTCCCTATCTTCTCGACTTCTCAG  
 GGGTCTTCCAAAAGTGTATTGGGTAGAAGAAAGCACAGCTCGGAAAGGCAGAGGTAACCTCCCAGTTGCA  
 GAGAGCTTCAGCTTCTGCCTGGTGACCTTGCTGTCTGATGTGGCTTGCAGGGACCCCTCACTTAGGGATG  
 AGATTTTAGAGGCAATTTTGCAGGTTTTACATGTCCTTTTGGGAATGTGCCAGGCCTTGGAGATTCAAGA  
 AAAAGAATACCTTTGCAAGTATGCGATCCCATGCCTGATAGGAATCTCAAGATCTTTTGGACGTTACAGC  
 AATTCAGAAGAGTCTCTCCTCTCAAAGCTTTTCCCAAAGTTTCTCCTCATTCCCTGAGAATCCCAGAAG  
 AGCTAGAAGGTGTCCGAAGGCGTTCCTTAATGACTTTCGCTCCATCCTGCCAGCAACCTGCTAACTGT  
 CTGTCAGGAGGGCACACTGAAGAGGAAAACCAGCAGTGTGTCCAGCATCTCTCAGTTAGCCAGAACGT  
 GGCATACCCCTCCCAGCTCCCCTGGAGGATCTGCATTTCACTATTTTGAAGCTTCTTGCCTACCTGATG  
 GGACTGCCTTGGAGCCTGAATACTACTTCTACCATCAGTCCAGTTTTTCTATCTCTCCCTGTTCAA  
 TGGTATTACCTATAAGGAGTTCGTATTCCACTGGAAATGCTTCGGAACTCTTAAACTTGGTGAAGAAG  
 ATTGTTGAGGAGCCTGTTCTCAAATCCTTAGATGCAATTGTAGCCGCGTGATGGAGGCCAATCCCAGTG  
 CTGATCTGTAATAACAACCTTCAGTGATCCCCTGTACCTGACCATGTTCAAGATGCTTCGAGATACTCT  
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 ATGAGCCAAGGGGAGCTCCAAAAGATTCTGCATGACGCAGATAGGATCCACAGTGAGATGAGCCCACTCA  
 AACTGCGTGCCAAGCAAACGCTGCCTGTGTGGACCTCATGGTGTGGCTGTGAAGGATGAGCAGGGTGC  
 AGAAAACCTTTGCATCAAGCTGTCTGAAAAGCTGCAGTCCAAGACATCCAGTAAGGTCATCATTGCCAT  
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 CAGTCAGTACCACACAGTTGCTGGCAGTGATATAAAAATCAGTGTACCAATGAGCATTCCGAGTCAACT  
 CTGAATGTCTTGGCGGCAAGAAGAACCAGCCATCCATGTATGAGCAGCTCCGAGACATCGCCATTGACA



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ACATCTGCAGGTGCCTGAAGGCCGGCCTCACCGTGGACCCTGTGATCGTGGAGGCCCTCCTGGCCAGCCT  
 CTCCAACCGGCTCTACATTTCCAGGAGAGTGACAAGGATGCTCACTTGATTCTGACCATACCATCCGT  
 GCCTTGGGACACATTGCAGTAGCTTTGAGGGACTCCAAAGGTCATGGAGCCAATTCTGCAGATCCTGC  
 AGCAGAAATTTGCCAGCCCCCTCACCCCTTGATGTGCTCATCATCGACCAGCTGGGCTGCCTGGTGAT  
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 GTTGTGTATTAGCCACCAAGACTATAAAGACCATGGCTACAGGCACTGCTCCCTAGCAGTGATCAATG  
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 CAAGCATCAGAAGTGGTGTGAGGACTGTCTCAGCACACAGGATGGCCATGGCCATGAGGACCTCTT  
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 ATGTGGCAGCCATTGGACCACGTTTCAAACCTGCTGACCTTGGGGCTGTCCCTCCTGCATGCTGATGTT  
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 CCACCAAAGTTTCTACTCAAGGAGAAAAGAGGCTTCTGTGAAGATATAAGCATAATGATTAAGTTTTGGA  
 CTGCCATGTTCTCAGATAAAGAAGTACCTGACTGCCAGCCAGCTCGTTCCCCAGATAATCAGGACACCCG  
 AAGCAACTTGGATATAACTGTGGGCTCTCGACAACAGGCTACCCAGGGCTGGATCAACACTTACCCCTC  
 TCCAGTGGCATGTCAACCATCTCAAAAAGTCAAGTATGTCTAAGAAAACCAACCGGGCTCCAGCTGC  
 ACAAGTACTACATGAAACGCAGGACACTGCTGCTGCTCACTATTGGCCACTGAGATCGAAGCCTCATCAC  
 TTGGTACAACCCACTGTGAGCCAGAGCTAGAGCTGGACCAGGAGGAGAGAACAGCGTTGCCAACTGG  
 AGGTCAAAGTACATCAGCTTGTGAGTGAAGCAGTGAAGGACAACGTGAACCTTGCCTGGAGCATCTCTC  
 CATACCTCGTGTGCAGCTGCCAGCCAGGTTCAAGAATACAGAAGCCATTGGAAATGAAGTACCCGCTCT  
 CGTTCCGTTGGATCCTGGAGCTGTTAGTGTGCTCCCTGAAGCCATCAAGTTCCTGTACCTGGCACACC  
 ATCGATGCTGATGCTCCAGAGCTCAGCCATGTTTTATGCTGGGCACCCACGGACCCACCTACAGGCTCT  
 CCTACTTCTCAGCATGTACCCACCACCCCTCTCACTGCACAGTATGGGGTAAAAGTCTGCGATCCTT  
 CCCTCCGGATGCCATTCTGTTCTACATCCCCAGATTGTGAGGCCCTCAGATATGACAAGATGGGCTAT  
 GTGCGTGAGTACATTCTGTTGCTGAGCCAAATCCCAGCTTCTGGCACACCAGTTTATTTGGAACATGA  
 AAATAACATCTACCTTGATGAAGAAGGACACCAGAAAGACCCTGACATCGGTGACCTCCTGGAGCAGTT  
 AGTAGAAGAGATCACAGGGTCTCTATCAGGCCAGCCAAAGATTTCTATCAACGGGAATTTGATTTCTTT  
 AACAAGATCAAAACGTGTGAGCCATCATCAAGCCCTACCTAAAGGCGATGAAAGGAAGAAGGCTGTG  
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AGACATTGACTACAAGTCAGGGACACCAATGCAGAGTGCCGCAAAAGCGCCGTATCTGGCCAAGTTAAG  
 GTGAAGAGATGCGGAGTGAGTGAACCTTGAAAAAGAAGGCTGCAGTGCCGCTCAGACGCAGAGGATGAAT  
 GCTTCAGCCAAGAGGCTGATGGCAAGAAGATCTGCTGGCAAGCAGCCATCTTCAAAGTGGGGGATGACTG  
 CCGACAGGACATGTTAGCCCTGCAGATCATCGACCTCTTCAAGAACATCTTCCAGCTGGTTGGCCTGGAC  
 CTCTTCGTTTTTCCTTATCGGGTAGTGGCTACTGCCCTGGGTGCGGAGTGATTGAGTGCATCCCAGACT  
 GTACCTCCCGGGACCAGCTGGCCGCCAGACTGACTTTGGCATGTATGACTACTTTACACGCCAGTATGG  
 GGATGAGTCTACCTTGGCCTTCCAGCAGGCACGCTACAACCTTTATCAGAAGCATGGCCGCTATAGCCTC  
 CTGCTGTTCTGCTGCAGATCAAGGACAGGCACAATGGCAACATCATGCTGGACAAGAAGGGGCACATCA  
 TCCACATCGACTTTGGCTTCATGTTTGAAGACTACCGGGTGGCAACCTTGGCTGGGAACAGACATCAA  
 GCTGACAGACGAGATGGTATGATTATGGGGGGCAAAATGGAAGCCACACCCTTCAAGTGGTTCATGGAG  
 ATGTGTGTCGAGGTTATCTGGCTGTGCGCCCTATATGGATGCAGTCGTCTCCCTGGTTACACTCATGT  
 TGGACACAGGCCCTGCCCTGTTTTCTGTTGGCCAGACAATCAAACCTTTTGAACACAGGTTTCCAGCCGAACAT  
 GACAGAGCGGGAGGCTGCGAATTTATCATGAAGGTCATCCAGAAGTGTTCCTCAGCAACAGGAGCCGG  
 ACCTACGACATGATCCAGTACTACCAGAATGATATCCCCTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001001983
- Insert Size:** 6135 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\\_001001983.2](#), [NP\\_001001983.2](#)
- RefSeq Size:** 6449 bp
- RefSeq ORF:** 6135 bp
- Locus ID:** 224020
- UniProt ID:** [E9Q3L2](#)
- Cytogenetics:** 16 A3
- Gene Summary:** Acts on phosphatidylinositol (PtdIns) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate.[UniProtKB/Swiss-Prot Function]