

Product datasheet for **MC228989**

Pi4kb (NM_001293715) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pi4kb (NM_001293715) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pi4kb |
| Synonyms: | ESTM41; PI4K-beta; PI4Kbeta; Pik4cb |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC228989 representing NM_001293715
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGACATGGTAGTGGAGCCTGCCACCTGAAGCCAATTCTGAGCCTACTCTAGCCATCAGGGA
ATAATGGGGCTCCCTACTAAGCGTCATCACGGAGGGGTCGGGAACTGTCAGTGATTGACCTGAGGT
GGCCAGAAAGCCTGCCAGGAGTACTGGAGAAAGTCAAGCTTTTGCATGGAGGTGTAGCCATCTTAGC
AAAGGCACCCCGCTGGAGTTGGTTAATGGGGATGGTGTGGACAATGAAATCCGTTGCCTAGATGATCCAC
CTGCCAGATCAGGGAGGAAGAAGATGAGATGGGGCTGGTGTGGCCTCTGGCACAGCCAAAGGAGCAAG
ACGACGACGACAGAACAACCTCAGCCAAACAGTCTTGGCTCCTGAGGCTGTTTGTAGTCAAACTATTTGAC
ATCTCTATGGCTATTTCACTTGTATAACTCCAAGGAGCCTGGAGTCAAGCCTACATTGGCAACCGGC
TCTTCTACTTTGCAATGAGGATGTGGACTTCTATTTGCCCAAGTTGCTTAACATGTATATCCACATGGA
TGAGGATGTGGCGATGCCATTAAGCCCTACATAGTCCACCGCTGTCGCCAGAGCATCAACTTTCCCTC
CAGTGTGCCCTGTTGCTTGGGGCCTACTCTCAGACATGCACATTTCCACTCAGCGACACTCGCGAGGGA
CCAAGTACGGAAGCTAATCCTCTCAGATGAGCTGAAGCCAGCTCACCGAAAGAGGGAGCTGCCGACATT
AAGCCAGCCCTGACACAGGGCTGTCTCCCTCTAAAAGGACTCACCGAGCTTCTAAGTCAGATGCTACG
GCCAGCATAAGTCTCAGCAGCAACCTGAAACGAACAGCCAGCAACCCCTAAAGTGGAGAATGAGGATGAGG
AGCTCTCCTCCAGCAGGAGATATTGATAATTCATTAGTTCCTGTCCGGCTGGCCCTGAGCGAGA
ATTCATCAAGTCTTTGATGGCAATCGGCAACGGCTGGCCACGCTCCCACTAAAGAGCAAAAAACAA
AGGCTGATCTCAGAGCTTCCCTGCTCAACCATAAGCTCCCTGCCGAGTCTGGCTGCCACGGCTGGCT
TTGACCACCGTGGTCCGTGTGCCCCACACAAAGCTGTTGTTCTCAATTCCAAGGATAAGGCTCCCTA
CCTGATCTACGTGGAAGTCTCGAATGTGAAAACCTTGACACAACCTAGTGTTCCTGCCCGGATTCCTGAA
AACCGAATTCGGAGTACCGGTCTGTAGAGAACCTGCCTGAATGTGGTATCACTCATGAGCAGCGAGCTG
GCAGTTCAGCACTGTGCCAATTATGACAATGATGATGAAGCCTGGTCAAGTGGATGATATAGGCGAGCT
GCAAGTGGAGCTCCCTGAAGTGCACACCAACAGCTGTGACAACATCTCCAGTTCCTCGGTGGACAGCATC
ACCAGCCAGGAGCAAGGAGCCTGTGTTCAATGCAGCAGGGGACATCCGACGGCGCCTTTCAGAACAGC
TGGCTCACTCTACAGCCTTCAAACGAGACCCTGAAGACCCTTCTGCAGTTGCCCTCAAAGAGCCCTG
GCAGGAGAAAGTCCGGAGGATCAGAGAAGTTCCTCCGATGGCCATCTTCCAATTGGCGACTCCTTTCA
GTCATTGTCAAGTGTGGAGATGACCTTCGCCAGGAGCTGCTGGCTTCCAGGTGTTGAAACAACGTCAGT
CCATTTGGGAACAGGAGGAGTGCCTCTTTGGATCAAGCCATATAAGATTCTTGTGATTTAGCTGACAG
TGGCATGATTGAACAGTAGTCAACGCTGTGTCCATCCACCAGGTGAAGAAACAGTCACAGCTCTCCTTG
CTCGATTACTTCTACAGGAACATGGCAGTTATACCACTGAGGCATTCTCAGTGCCAGCGCAATTTTG
TGCAAAGCTGTGCTGGCTACTGCTTGGTCTGCTACCTATTGCAAGTCAAGGACAGGCACAACGGGAACAT
CCTTCTGGACGCAGAAGTCCACATCCACATCGACTTTGGCTTCATCCTTCCAGCTCACCCGAAAC
CTGGGCTTCGAGACATCAGCCTTAAAGCTGACCACAGAATTTGTGGATGTAATGGGTGGCCTGAACGGTG
ATATGTTCAACTACTACAAGATGCTCATGCTGCAAGGGCTGATTGCTGCTCGGAAGCACATGGACAAGGT
GGTACAGATTGTGGAGATCATGCAGCAAGTCTCAGCTTCTTGCCTTCCATGGCTCCAGCACCATTTCGC
AACCTCAAAGAGAGGTTCCACATGAGCATGACTGAGGAGCAGCTGCAGCTGCTGGTGGAGCAGATGGTGG
ACGGCAGCATGAGGTCCATCACCACCAAACCTCTACGATGGCTTCCAGTACCTACCAATGGCATCATGTG
A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001293715
Insert Size: 2451 bp

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| 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). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <ol style="list-style-type: none">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: | <u>NM_001293715.1, NP_001280644.1</u> |
| RefSeq Size: | 3831 bp |
| RefSeq ORF: | 2451 bp |
| Locus ID: | 107650 |
| UniProt ID: | <u>Q8BKC8</u> |
| Cytogenetics: | 3 F2.1 |
| Gene Summary: | <p>Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation (By similarity). Involved in Golgi-to-plasma membrane trafficking (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript (1) and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |