

Product datasheet for **MC227938**

Pi4kb (NM_001293716) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4kb (NM_001293716) 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: >MC227938 representing NM_001293716
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAATCGGCAAACGGCTGGCCACGCTCCCACTAAAGAGCAAAAACACAAAGGCTGATCTCAGAGC
 TTTCCCTGCTCAACCATAAGCTCCCTGCCGAGTCTGGCTGCCACGGCTGGCTTTGACCACCACGTGGT
 CCGTGTGCCCCACACACAAGCTGTTGTTCTCAATTCGAAGGATAAGGCTCCCTACCTGATCTACGTGGAA
 GTTCTCGAATGTGAAAACCTTTGACACAAGTGTTCCTGCCCGATTCTGAAAACCGAATTCGGAGTA
 CACGGTCTGTAGAGAACCTGCCTGAATGTGGTACTACTCATGAGCAGCGAGCTGGCAGCTTCAGCACTGT
 GCCAATTATGACAATGATGATGAAGCCTGGTCACTGATGATATAGGCGAGCTGCAAGTGGAGCTCCCT
 GAAGTGACACCAACAGCTGTGACAACATCTCCAGTTCTCGGTGGACAGCATCACCAGCCAGGAGAGCA
 AGGAGCCTGTGTTCAATTGCAGCAGGGGACATCCGACGGCGCCTTTCAGAACAGCTGGCTCATACTCCTAC
 AGCCTTCAAACGAGACCCTGAAGACCCTTCTGCAGTTGCCCTCAAAGAGCCCTGGCAGGAGAAAGTCCGG
 AGGATCAGAGAAGGTTCCCGTATGGCCATCTTCCCAATTGGCGACTCCTTTCAGTCATTGTCAAGTGTG
 GAGATGACCTTCGCCAGGAGCTGCTGGCTTCCAGGTGTTGAAACAACCTGCAGTCCATTTGGGAACAGGA
 GCGAGTGCCTCTTTGGATCAAGCCATATAAGATTCTTGTGATTTTCAGTGCAGTGGCATGATTGAACCA
 GTAGTCAACGCTGTGTCATCCACCAGGTGAAGAAACAGTCAAGCTCTCCTTGCCTGATTACTTCTCTAC
 AGGAACATGGCAGTTATACCACTGAGGCATTCTCAGTGCCAGCGCAATTTTGTGCAAAGCTGTGCTGG
 CTACTGCTTGGTCTGCTACCTATTGCAAGTCAAGGACAGGCACAACGGGAACATCCTTCTGGACGCAGAA
 GGTCACATCATCCACATCGACTTTGGCTTCATCCTTCCAGCTCACCCGAAACCTGGGCTTCGAGACAT
 CAGCCTTTAAGCTGACCACAGAATTTGTGGATGTAATGGGTGGCCTGAACGGTGATATGTTCAACTACTA
 CAAGATGCTCATGCTGCAAGGGCTGATTGCTGCTCGGAAGCACATGGACAAGGTGGTACAGATTGTGGAG
 ATCATGCAGCAAGTTCTCAGCTTCTTCTGCTTCCATGGCTCCAGCACCATTTCGAACTCAAAGAGAGGT
 TCCACATGAGCATGACTGAGGAGCAGCTGCAGTCTGCTGGTGGAGCAGATGGTGGACGGCAGCATGAGGTC
 CATCACCAAACTCTACGATGGCTTCCAGTACCTACCAATGGCATCAT**GTGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001293716
- Insert Size:** 1455 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).
- 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:

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_001293716.1](#), [NP_001280645.1](#)

RefSeq Size: 2849 bp

RefSeq ORF: 1455 bp

Locus ID: 107650

UniProt ID: [Q8BKC8](#)

Cytogenetics: 3 F2.1

Gene Summary: 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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation from a downstream start codon compared to variant 1. The encoded isoform (3) has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.