

Product datasheet for **MC221725**

Pi4kb (NM_175356) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4kb (NM_175356) 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: >MC221725 representing NM_175356
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAGACATGGTAGTGGAGCCTGCCACCCTGAAGCCAATTCTGAGCCTACTCTAGCCATCAGGGA
 ATAATGGGGGCTCCCTACTAAGCGTCATCACGGAGGGGTCGGGAACTGTCAGTGATTGACCCTGAGGT
 GGCCAGAAAGCCTGCCAGGAGTACTGGAGAAAGTCAAGCTTTTGCATGGAGGTGTAGCCATCTTAGC
 AAAGGCACCCCGCTGGAGTTGGTTAATGGGGATGGTGTGGACAATGAAATCCGTTGCCTAGATGATCCAC
 CTGCCAGATCAGGGAGGAAGAAGATGAGATGGGGCTGGTGTGGCCTCTGGCACAGCCAAAGGAGCAAG
 ACGACGACGACAGAACAACCTCAGCCAAACAGTCTTGGCTCCTGAGGCTGTTTGTAGTCAAACTATTTGAC
 ATCTCTATGGCTATTTCACTTGTATAACTCCAAGGAGCCTGGAGTGAAGCCTACATTGGCAACCGGC
 TCTTCTACTTTGCAATGAGGATGTGGACTTCTATTTGCCCGAGTTGCTTAACATGTATATCCACATGGA
 TGAGGATGTGGCGATGCCATTAAGCCCTACATAGTCCACCGCTGTCGCCAGAGCATCAACTTTCCCTC
 CAGTGTGCCCTGTTGCTTGGGGCCTACTCTCAGACATGCACATTTCCACTCAGCGACACTCGCGAGGGA
 CCAAGTACGGAAGCTAATCCTCTCAGATGAGCTGAAGCCAGCTCACCGAAAGAGGGAGCTGCCGACATT
 AAGCCAGCCCTGACACAGGGCTGTCTCCCTCTAAAAGGACTCACAGCGTTCTAAGTCAGATGCTACG
 GCCAGCATAAGTCTCAGCAGCAACCTGAAACGAACAGCCAGCAACCCCTAAAGTGGAGAATGAGGATGAGC
 CTGTCCGGCTGGCCCTGAGCGAGAATTCATCAAGTCTTGTATGGCAATCGGCAACCGCTGGCCACGCT
 CCCCACTAAAGAGCAAAAAACAAAGGCTGATCTCAGAGCTTCCCTGCTCAACCATAAGCTCCCTGCC
 CGAGTCTGGTGCCACGGCTGGCTTTGACCACCAGTGGTCCGTGTGCCCCACACAAAGCTGTTGTTT
 TCAATTCGAAGGATAAGGCTCCCTACCTGATCTACGTGGAAGTTCTCGAATGTGAAAACTTTGACACAAC
 TAGTGTTCTGCCCGGATTCTGAAAACCGAATTCGGAGTACACGGTCTGTAGAGAACCTGCCTGAATGT
 GGTATCACTCATGAGCAGCGAGCTGGCAGCTTCAGCACTGTGCCAATTATGACAATGATGATGAAGCCT
 GGTGAGTGGATGATATAGGCGAGCTGCAAGTGGAGCTCCCTGAAGTGCACACCAACAGCTGTGACAACAT
 CTCCCAGTTCTCGGTGGACAGCATCACAGCCAGGAGAGCAAGGAGCCTGTGTTCAATGCAGCAGGGGAC
 ATCCGACGGCGCCTTTCAGAACAGCTGGCTCATACTCCTACAGCCTTCAAACGAGACCCTGAAGACCCTT
 CTGCAGTTGCCCTCAAAGAGCCCTGGCAGGAGAAAGTGGGAGGATCAGAGAAGTTCCCCGATGGCCA
 TCTTCCCAATTGGCGACTCCTTTCAGTCATTGTCAAGTGTGGAGATGACCTTCGCCAGGAGCTGCTGGCT
 TTCCAGGTGTTGAAACAACCTGCAGTCCATTTGGGAACAGGAGCGAGTGCCTCTTTGGATCAAGCCATATA
 AGATTCCTGTGATTTAGCTGACAGTGGCATGATTGAACCAAGTAGTCAACGCTGTGTCCATCCACCAGGT
 GAAGAAACAGTCACAGCTCTCCTTGCTCGATTCTTCTACAGGAACATGGCAGTTATACCACTGAGGCA
 TTCTCAGTGCCAGCGCAATTTTGTGCAAAGCTGTGCTGGCTACTGCTTGGTCTGCTACCTATTGCAAG
 TCAAGGACAGGCACAACGGGAACATCCTTCTGGACGCAGAAGGTCACATCATCCACATCGACTTTGGCTT
 CATCCTTTCCAGCTCACCCGAAACCTGGGCTTCGAGACATCAGCCTTTAAGCTGACCACAGAATTTGTG
 GATGTAATGGGTGGCCTGAACGGTGATATGTTCACTACTACAAGATGCTCATGCTGCAAGGGCTGATTG
 CTGCTCGGAAGCAGATGGACAAGGTGGTACAGATTGTGGAGATCATGCAGCAAGGTTCTCAGCTTCTTGT
 CTTCCATGGCTCCAGCACCATTCGCAACCTCAAAGAGAGGTTCCACATGAGCATGACTGAGGAGCAGCTG
 CAGCTGCTGGTGGAGCAGATGGTGGACGGCAGCATGAGGTCCATCACCAACCAACTCTACGATGGCTTCC
 AGTACCTACCAATGGCATCATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_175356
 Insert Size: 2406 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:	<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:	NM_175356.3 , NP_780565.2
RefSeq Size:	3786 bp
RefSeq ORF:	2406 bp
Locus ID:	107650
UniProt ID:	Q8BKC8
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 (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than 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.</p>