

Product datasheet for **MC224328**

Pik3r4 (NM_001081309) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pik3r4 (NM_001081309) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pik3r4
Synonyms: 2210010015Rik; C85833; C730038E05Rik; D9Ertd418e
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224328 representing NM_001081309
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGGAAATCAGCTGGCTGGCATCGCTCCTCCAGATCCTGTCTGTAGAGAGTTATTTCTCAGACATCC
 ATGACTTTGAGTATGATAAGAGCCTGGGAAGCACTCGGTTTTTAAAGTCGCTCGAGCCAAGCACCGGGA
 AGGCCTGGTGGTTGTGAAGGTCTTTGCAATTCAGGATCCACGTTACCCTTAAGTATAAACAGGAG
 CTGGAGGAACTGAAAATCAGGCTCCACTCCGCCAGAAGTGCCTCCCCTCCAGAAAGCAGCAGAAAAGG
 CGTCTGAGAAAGCAGCCATGCTGTTCCGGCAGTATGTGAGAGACAACCTCTACGATCGCATCAGTACCCG
 CCCGTTCTAAACAACATCGAGAAGCGCTGGATCGCCTTCCAGATCCTGACGGCCGTGGACCAAGCGCAC
 AAATCTGGAGTCCGCCACGGAGACATCAAGACAGAGAAATGTGATGGTCACCAGTTGGAAGTGGGTCTCC
 TAACCGACTTCGCCAGTTTTAAGCCACGTATCTCCCGAGGACAACCCAGCGGATTTCAACTATTTCTT
 TGACACCTCGAGAAGGAGGACATGCTACATAGCTCCCGAGCGCTTCGTTGACGGTGGGATGTTCCGCCACC
 GAGTTAGAGTACATGAGAGACCCTCAACCCGCTTGTGACCTGAATAGCAATCAGAGAGCGCGGGGAG
 AGCTGAAGAGAGCCATGGACATCTTTTCGGCAGGTTGCGTGATAGCTGAGCTTTTACGGAAGCGTACC
 TTTGTTTGATCTCTCAGCTGCTGGCGTATAGAAACGGACATTTTTTCCCTGAACAAGTGCTAAACAAA
 ATTGAAGATCGCAGTATCAGAGACTTGGTAACTCAGATGATTAACCGTGAGCCCGAGAAGCGTTTGAAG
 CTGAGGACTACCTGAAGCAGCAGCGAGGCAACGCCCTCCCTGAGATATTTTATACTTTCCCTTCAGCCTTA
 CATGGCCAGTTCCGCAAGGAAACCTTTCTCTCTGCAGATGAGCGGATTTTGGTTATACGAAAGATTTG
 GGCAACATTATTCACAACCTCTGTGGACATGATTTGCCAGAAAAAGCAGAAGGGGAGTCCAGGGCCAGTG
 GTCTGGTTGTCTGGTGTCCGTGATAACGTCTGCCTGCAGACACTGAAGTCTGCGACTCCAACTGGC
 CGCCTTGAGCTCATCTGCATCTGGCCCCAGACTGAGCGTCGAGATCCTTCTGGATCGCATCACTCCC
 TACCTGTTGCATTTAGCAATGACTCTGTCCAAAGAGTGCGGGCTGAAGCCCTGAGGACTCACCAAG
 TCCTTGCCCTTGCCAAGAGGTTCCCTCGCAACGATGTCAATATCTATCCAGAGTATATTCTCCCCGGCAT
 AGCCCCCTGGCCAGGATGACGCTACCATCGTCAGACTGGCCTACGCTGAAAACATAGCTCTGTTGGCC
 GAGACGGCTCTGCGATTCTGGAGCTTGTGAGCTGAAAACCTCAACATGGAGAACGAGCCCGATAACG



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AGGAGGTAGATGAAGCCACGCGTCTAACGGAGACTATGACACAGAGCTCCAGGCCTTGCATGAGATGGT
 CCAGCAGAAGGTGGTCACGTTGCTAAGCGACCCCTGAGAATATCGTGAAACAGACGCTGATGGAGAGTGGG
 ATCACACGCTTGTGCGTCTTCTCGGACGCCAGAAGGCCAACGACGTTCTTGTCCCACATGATCACTT
 TCCTCAATGATAAGAATGATTGGCACCTGCGTGGAGCTTTCTTTGATAGCATAGTCGGTGTGGCTGCCTA
 CGTTGGCTGGCAGAGCTCCTCTATCCTCAAGCCCCTGCTCCAGCAAGGCCTCAGCGATGCTGAGGAGTTT
 GTCATCGTGAAGCTCTCAATGCCCTGACCTGCATGTGCCAGCTAGGGCTGCTGCAGAAACCCCATGTCT
 ACGAGTTCGCCAGTGATATTGCTCCCTTCTGTGTCCACCTAACCTGTGGATACGCTATGGCGCTGTGGG
 ATTTATCACGGTGGTAGCTCATCAGATCAGTACTGCTGATGTCTACTGCAAGCTCATGCCGTATCTTGAC
 CCGTATATTACACAGCCAGTGATACAGATTGAGAGGAAGCTGGTCTGCTCAGTGTGCTAAAGGAGCCGG
 TGAGCCGCTCCATATTTGACTATGCTCTGAGGTCGAAAGACATCGCCAGCTTGTTCAGACATCTCCACAT
 GCGCCAGAAGAAGCGAAATGGCTCTTCTCGACTGCCCTCCACCTGAGGACCCACCATAGCGCAACTT
 CTGAAGAAGTTGCTCTCACAGGGGATGACTGAAGAAGAGGAAGATAAACTTCTGGCACTGAAGGACTTCA
 TGATGAAATCAAATCGAGCCAAAGCTAATGCGGTAGACCAGAGCCACCTCCACGACAGCAGCCAGAAAGG
 TGTAAATCGACTTGGCCGCTTAGGCATCACTGGGAGACAAGTTGATCTTGTAAAACCAAACAAGAACCA
 GATGAGAAACGTGCTAGGAAACATGTGAAACAAGACTCCAATGTAATGAAGAGTGGAAAAGCATGTTTG
 GGTCAATGGAGCCACCGAATATCCACAGGCCCTGCCTAAAACAGTGACCATGAGGTTGTTTCAGCCTGG
 GAAGCCACCTCGCTCTGAGTCCCTGCTGGTATCTGTGTCCCTTTGTCAACGCTCTCCACAGGTCTCAGAA
 GCAGCTCACATCCCAAGTAAGAAGCCTGTGATCCCGGTTGTGAGTAGCACGGTCTGCCGTCCACTTACC
 AGATCCGCATCACACGTGCAAGACTGAACTTCAGCAGCTCATACAGCAGAAGAGGGAGCAGTGCAACGC
 GGAGCGCATAGCCAAGCAGATGATGGAGAATGCCGAGTGGGAGAGCAAGCCACCTCCACCTGGGTGGCGT
 CCTAAAGGGTCTAGTTGCACATCTTCATGAGCACAAATCTGCTGTGAATCGCATCAGAGTCTCTGATG
 AACCTTACTTTTTGCAACATGTTCAAATGATGGCACAGTGAAGATCTGGAACAGCCAGAAGATGGAGGG
 GAAGACCACCAACGCGGTCTATTCTACGTACAGCCGAATTGGAGGACGAGTCAAGACGCTAACGTTT
 TGCCAAGGCTCCCACTACTTGGCCATAGCATCTGATAATGGTGTGCTGCCAGCTTCTTGGAAATGAGGCGT
 CTAAGTTACCCAAGTCTCCTAAAATTCACCCTCTACAAAGCAGGATTCTGGATCAGAAGGAAGATGGCTG
 TGTGGTGGACATGCATCACTTCAACTCCGGGGCACAGTCCGTTCTTGCCTATGCCACGGTGAATGGCTCT
 CTGTTGGATGGGATCTCAGGTCTTCAAGCAACGCGTGGACATTAAGCATGACCTAAAGTCAGGCCTCA
 TCACCTCTTTGCCGTGGACATCCACCAGTGTGGCTGTGCATAGGCACGAGCAGCGGTGCCATGGCGTG
 TTGGGACATGAGGTTCCAGTTGCCCATCTCCAGTCACTGTCATCCCTCCAGAGCTCGCATCCGGCGCCTC
 TCCATGCACCCCTGTACCAGTCTGGTAATCGCAGCTGTTCAAGGCAACAATGAAGTCTCCATGTGGG
 ACATGGAACTGGCGACAGGAGACTGACTCTCTGGGCCAGCAGCGCACCCGCACTGTCTGAATTACAGCC
 TTCACCCACAGCGTCCATGGCATCTACTGCAGCCCTGCAGATGGAAACCTATCCTGCTGACCGCTGGC
 TCAGACATGAAAATAAGGTTCTGGGACTTGGTTTCCCCAGAGAGGTCCTATGTTGTTGCGGGAAGTACAG
 GTTCCCGTCTGTCTCCTACTACAAGAAGATAATAGAAGGCACCGAGGTCGTCAGGAAATTCAGAAATA
 GCAGAAGTTGGACCGAGTGATGATACCCTCGGAGGGGCCGGAGTCTCTGCCTGTGGGACATCATGAC
 ATCATCACAGACATTGCCACCTTCCAGACCACTCAGGGCTTATTGTGACTGCTTCTAGAGACGGAATTG
 TGAAGGTGTGGAATAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-RsrII

ACCN:

NM_001081309

Insert Size:

4077 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:	<u>NM_001081309.1, NP_001074778.1</u>
RefSeq Size:	4884 bp
RefSeq ORF:	4077 bp
Locus ID:	75669
UniProt ID:	<u>Q8VD65</u>
Cytogenetics:	9 56.79 cM
Gene Summary:	Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (By similarity). [UniProtKB/Swiss-Prot Function]