

## Product datasheet for **RN205910**

### **Pik3r4 (NM\_001108777) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pik3r4 (NM\_001108777) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pik3r4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN205910 representing NM\_001108777  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGGAAACCACTAGCTGGTATTGCTCCTCCAGATCCTGTCGAGAGCTACTTCTCAGACATCC  
 ATGACTTTGAATATGATAAGAGTCTGGGAAGTACTCGGTTTTTAAAGTTGCTCGAGCGAAGCACCGGGA  
 GGCCTGGTGGTTGTGAAGTCTTTGCAATCCAGGATCCACGTTGCCTTTAACTAGTTATAAACAGGAG  
 CTGGAGGAACTGAAAATCAGGCTCCATTTCGGCCAGAAGTCTTACCTTTCCAGAAAGCAGCAGAAAAAG  
 CATCGGAGAAAGCGCCATGCTGTTTCAGGCAGTACGTGAGGGACAACCTCTACGACCGTATCAGTACCCG  
 TCCCTTCTAAATAACATCGAGAAGCGCTGGATCGCCTCCAGATCCTGACAGCTGTGGACCAAGCACAC  
 AAGTCTGGAGTCCGCCACGGTGACATCAAGACAGAGAACGTGATGGTACCAGTTGGAAGTGGTTCTCC  
 TCACTGATTTTGCCAGTTTTAAGCCACTTATCTTCCAGAGGACAACCCAGCAGATTTCAACTATTTCTT  
 TGACACCTCGAGGAGGAGGACTTGCTACATCGCCCTGAGCGTTTCGTGGATGGCGGTATGTTGCCACC  
 GAGTTAGAATACATGAGAGATCCCTCAACTCCTTGTGACCTAAATAGCAATCAGAGAACACGGGGAG  
 AGTTGAAGAGGGCCATGGACATCTTTTCAGCAGTTGCGTGATAGCCGAGCTTTCACGGAAGGCGTGCC  
 GTTGTTGATCTCTCACAAGTGTGGCATAAGAAATGGACATTTTTTCCCTGAGCAAGTGTAAATAAA  
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 CTGACGACTACCTGAAGCAGCAGCGTGGCAATGCTTTCCCGAGGTATTCTATACTTTCCCTTCAGCCGTA  
 CATGGCTCAGTTCCGCAAGGAGACCTTTCTCTCTGAGATGAGCGGATTTGGTTATACGGAAAGACTTG  
 GGCAATATCATTACAACCTCTGTGGACATGACTTGCCAGAGAAAGCAGAAGGGGAGTCCAAGGCTAGCG  
 GGCTGGTTGCTGCTGGTGTGAGTATAACGTCTGCTGCAGACACTGAAGTCTGCGACTCCAACTGGC  
 TGCCTTGAGCTCATTCTGCATTTGGCCCCGAGGCTGAGCGTAGAGATCCTTCTGGATCGCATCACCC  
 TACTTTGTCATTTGCAACAACCTCTGTTCTCGAGTGGGGCTGAAGCCCTGAGGACTCAACAAAG  
 TCCTTGCCTTTGTCCAAGAAGTTCCCTCGCAATGATGCAATATCTACCCAGAGTACATTCTCCCGGCAT  
 AGCTCACCTGGCCAGGACGACGCCACCATCGTCAGACTGGCCTACGCTGAAAACATAGCTCTGTTGGCC  
 GAGACGGCTCTGCGATTCTGGAAGTGTGAGCTAAAACTCTCAACATGGAGAACGAGCCGGACAGTG  
 AAGAGGTAGTGAAGCCACGCGTCTAACGGAGACTATGACACAGAGCTCCAGGCCCTACACGAAATGGT  
 CCAGCAGAAGGTTGCTCACTTTGTTAAGTGACCTGAGAATATTGTGAAACAGACATTGATGGAGAATGGG



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ATCACACGCTTGTGCGTCTTCTTTGGACGGCAGAAAGCCAACGACGTTCTTGTCCCACATGATCACGT  
 TCCTGAATGATAAGAATGACTGGCACCTGCGTGGAGCTTTCTTCGATAGCATAGTCGGTGTGGCTGCCTA  
 TGTTGGCTGGCAGAGCTCCTCCATCCTCAAGCCCTGCTCCAGCAAGGCCTCAGCGATGCCGAGGAGTTC  
 GTCATTGTGAAAGCTCTCAATGCCCTGACCTGTATGTGCCAGTTAGGGCTGCTGCAGAAACCTCATGTCT  
 ATGAATTCGCCAGTGATATTGCTCCCTTCTGTGTACCCTAATCTGTGGATACGCTATGGTGCCGTGGG  
 ATTCATCACCGTGGTAGCTCATCAGATCAGACTGCTGACGCTACTGCAAGCTCATGCCGTATCTTGAC  
 CCGTATATTACACAACCAGTAATACAGATTGAAAGGAAGCTTGTCTTGGCTTAAAGAGCCGG  
 TGAGTCGCTCTATATTTGATTATGCTCTGAGGTCCAAAGACATCGCTAGCTTGTTCAGACATCTTCACAT  
 GCGTCAGAAGAAGCGGAATGGCTCTTCTTACTGCCCTCCGCCGAGGACCCTGCCATAGCACAGCTT  
 CTGAAGAACTGCTCTCCAGGGGATGACCGAAGAAGAGGAAGATAAACTTCTGGCTCTGAAGGACTTCA  
 TGATGAAATCAAATCGAGCAAAAGCTAATGCAGTAGACCAGAGCCACCTGCATGACAGCAGCCAGAAAGG  
 TGTAATTGACTTGGCAGCCTTGGGCATCACTGGGAGACAAGTTGACCTTGTAAAACCAAGCAGAGCCC  
 GATGAGAAACGGGCTAGGAAGCATGTGAAACAAGACTCCAATGTAATGAAGAATGGAAGCATGTTTG  
 GGTCACTGGAACCACCGAATATCCACAGGCCCTGCCTAAAACAGTGACCATGAGGTGGTTCCAACGGG  
 GAAGTCACCTCGCTCTGAGTCTCTGCTGGTGTCTGTGCCCTTGTCAACCTCTCCACAGGTTCCGAA  
 GCAGCACATCCCAGTAAGAAGCCGGTGATTCCGGTGTAAAGTAGCACGGTCCATGCCATCCACTTACC  
 AGATCCGGATCACCACTTGAAGACTGAACTTCAGCAGCTCATACAACAGAAGCGTGAGCAGTGTAAACGC  
 AGAGCGCATAGCCAAGCAGATGATGGAGAACGCCGAGTGGGAGAGCAAGCCACCTCCACCTGGGTGGCGT  
 CCTAAAGGGCTCTAGTTGCACATCTTCATGAGCACAATCTGCTGTAATCGAATCAGAGTCTCCGATG  
 AACACTTACTCTTTGCAACGTGCTCAAATGATGGTACAGTGAAAATCTGGAACAGTCAGAAGATGGAGGG  
 GAAGACCACTACGACGAGGTCTATTCTGACATACAGCCGAATTGGAGGGCAGTCAAGACACTAACATTT  
 TGCCAAGGCTCCCACTACTTGGCCATAGCATCTGATAATGGTGTCTCCAGCTTCTTGAATTGAGGCTT  
 CTAAGTTACCCAAGTCTCCTAAAATCCACCCTTACAAAGCAGGATTCTGGATCAGAAGGAAGACGGATG  
 TGTGGTGACATGCATCACTTCAACTCGGGGGCACAGTCTGTTCTTGCCTATGCCACAGTGAATGGCTCT  
 CTGTTGGATGGGATCTCAGGTCAAGCAACGCATGGACATTAAGCATGACCTGAAGTCAGGCCTCA  
 TCACCTCTTTGCTGTGGACATCCACCAGTGTGGCTGTGCATAGGCACGAGCAGCGGGCCATGGCGTG  
 TTGGGACATGAGGTTCCAGTTGCCAATTTCCAGTCACTGTATCCCTCCAGAGCTCGATCCGGCGCCTC  
 TCCATGCACCCCTGTACCAGTCTGGTAATTGCAGCTGTTCAGGGCAACAATGAACCTCACCGCACA  
 GCGTCCATGGCATCTACTGCAGCCCTGCGGATGGCAACCCTATCTGCTGACCGTGGCTCAGACATGAA  
 AATAAGGTTCTGGGACTTGGTTCCCCAGAGAGTCTATGTTGTAGCGGAAGCAGGGTTCCCGTCT  
 GTATCCTACTACAAGAAGATAATAGAAGGCACGGAGTTGCCAGGAAATTCAGAATAAGCAGAAGGTTG  
 GACCAAGTGATGACACCCTCGAAGGGGCCGAGTCTCTGCCTGTGGGACATCATGACATCATCAGATA  
 TATTGCCACCTTCCAGACCCTCAGGGTTCATTGTGACTGCTCTAGAGATGGGATTGTGAAGGTGTGG  
 AAATAA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_001108777
- Insert Size:** 3996 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\\_001108777.1](#), [NP\\_001102247.1](#)

**RefSeq Size:** 4779 bp

**RefSeq ORF:** 3996 bp

**Locus ID:** 363131

**Cytogenetics:** 8q32

**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]