

Product datasheet for **RN211889**

Pik3r1 (NM_013005) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r1 (NM_013005) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pik3r1
Synonyms:	PI3KA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211889 representing NM_013005
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGCAGAGGGGTACCAGTACAGAGCGCTGTATGACTACAAAAGGAACGAGAGGAAGACATCGACC
 TACACTTGGGGGACATCCTGACTGTGAATAAAGGCTCCTTAGTGGCACTTGGATTCAGTGATGGCCAGGA
 AGCCCGCCAGAAGATATTGGCTGGTTAAATGGTTACAATGAACTACTGGGGAGAGGGGAGACTTTCCA
 GGAACCTTATGTTGAGTACATTGGAAGGAAAAGAATTTACCCCCACTCCTAAGCCACGGCCCCCTCGAC
 CTCTTCTGTAGCACCCGGTTCTTCAAAAAGTGAAGCAGACACTGAGCAACCAGTGTGACCCCTTCTGA
 TCTGGCCGAGCAGTTTGGCCCTCTGATGTTGCCCGCCTCTCTTATAAAGCTCCTGGAAGCCATTGAG
 AAGAAAGGACTGGAATGTTCAACTCTATACAGAACACAGAGCTCCAGCAACCCTGCAGAGTTACGACAGC
 TTCTTGATTGTGATCCCCCTCAGTGGACTTGGATGTGTTGATGAACACGTTTTAGCAGATGCTTTCAA
 ACGCTATCTCGCGGACTACCAAATCCTGTCTCCAGTAGCTGTTTACAATGAGATGATGTCTTTAGCC
 CAAGAAGTACCAAGCTCCGAAGACTACATCCAGCTGTTGAAGAAGCTCATTAGGTCGCCTAATATACCTC
 ATCAGTATTGGCTTACGCTCCAGTATTTGCTCAAGCACTTCTTCAAGCTCTCTCAAGCTCCAGCAAGAA
 CCTTCTGAATGCAAGAGCCCTCTCTGAAATTTTACGCCACGTGCTTTTACAGATCCAGCAGCCAGCTCT
 GATAACTGAACACCTCATAAAAGCGGTAGAGCTTTTAACTCAGCGGAGTGGAGTGAGCGACAGCCAG
 CACCAGCACTGCCCCCTAAACCACCCAAGCCACTTCTATAGCCAACAACAGCATGAACAACAATATGTC
 CTTACAGGATGCTGAATGGTACTGGGGAGATATCTCAAGGGAAGAAGTAAATGAAAACTCCGAGACACT
 GCTGATGGGACCTTTCTGGTACGAGATGCATCCACTAAAATGCACGGNGACTACACTCTCACACTAAGGA
 AAGGAGGAAATAACAAATTAATCAAAATCTTTACCGAGATGGGAAATACGGTTTTCTGATCCATTAAC
 CTTCAACTCTGTGGTTGAATTAATAAACCACTACCGGAATGAGTCCTTAGCTCAGTACAATCCCAAGCTG
 GATGTGAAGTTACTCTACCCAGTGTCTAAATACCAGCAGGATCAAGTTGTCAAAGAAGATAATATTGAAG
 CTGTGGGGAAAAAATTACATGAATATAATACTCAATTTCAAGAAAAAGTCGGGAATATGATAGATTATA
 TGAGGAATACACTCGTACTTCCCAGGAAATACAGATGAAAAGAACAGCTATCGAAGCATTAAATGACACC
 ATAAAAATATTGGAAGAGCAGTGCCACCCCGAGGAGCGGTACAGCAAAGACTACATAGAGAAGTTTAAAC
 GCGAAGGCAACGAGAAGGAAATCAAAGGATAATGCATAATCACGATAAGCTGAAGTCTCGGATCAGCGA
 GATCATCGACAGCAGGAGGAGACTGGAGGAAGACTTGAAGAAGCAGGCAGCCGAGTATCGCGAGATCGAC
 AAGCGCATGAATAGCATTAAAGCCGACCTCATTACAGTGAAGAAACAAGAGATCAATACTTGATGTGGC
 TGACGCAGAAAGGGTCCGGCAGAAGAAGCTGAACGAATGGTTGGGAAACGAAAACACAGAAGACCAATA
 CTCACTGGTAGACGATGACGAGGATTTGCCCCACCATGATGAGAAGACGTGGAATGTGGGGAGCAGCAAC
 CGAAACAAAGCCGAGAACCTATTGCGAGGGAAACGAGATGGCACTTTCTGGTCCGGGAGAGCAGTAAGC
 AGGGCTGCTATGCCTGCTCTGTAGTGGTAGATGGCGAAGTCAAACATTGCGTCAACAAGACTGCCAC
 CGGCTATGGCTTCGCCGAGCCCTACAACCTGTACAGCTCCCTGAAAGAGCTGGTGTACATTACCAACAC
 ACCTCCCTGGTGCAGCACAATGACTCCCTCAATGTCACACTAGCATACCCAGTATATGCACAACAGAGGC
 GATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013005

Insert Size: 2175 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_013005.1</u> , <u>NP_037137.1</u>
RefSeq Size:	2175 bp
RefSeq ORF:	2175 bp
Locus ID:	25513
UniProt ID:	<u>Q63787</u>
Cytogenetics:	2q12
Gene Summary:	Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling. Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (By similarity).[UniProtKB/Swiss-Prot Function]