

Product datasheet for **MC221084**

Pik3r1 (NM_001077495) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r1 (NM_001077495) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pik3r1
Synonyms:	p50alpha; p55alpha; p85alpha; PI3K
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221084 representing NM_001077495
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGCAGAGGGCTACCACTACAGAGCACTGTACGACTACAAGAAGGAGCGAGAGGAAGACATTGACC
 TACACCTGGGGACATACTGACTGTGAATAAAGGCTCCTTAGTGCACTTGGATTCAAGTATGGCCAGGA
 AGCCCGCCTGAAGATATTGGCTGGTTAAATGGCTACAATGAAACCACTGGGGAGAGGGGAGACTTTCCA
 GGAACCTACGTTGAATACATTGGAAGGAAAAGAATTTACCCCTACTCCCAAGCCTCGGCCCTCGAC
 CGCTTCTGTTGCTCCGGTTCTTCAAAAAGTGAAGCTGACACGGAGCAGCAAGCGTTGCCCTTCTGA
 CCTGGCCGAGCAGTTGCCCTCTGATGTTGCCCGCCTCTCTTATAAAGCTCCTGGAAGCCATTGAG
 AAGAAAGGACTGGAATGTTGACTCTATACAGAACACAAAGCTCCAGCAACCCTGCAGAATTACGACAGC
 TTCTTGATTGTGATGCCCGTCACTGGACTTGGAGATGATCGACGTACACGTCTTAGCAGATGCTTTCAA
 ACGCTATCTCGCGACTTACCAATCCTGTCTTCTGTAGCTGTTTACAATGAGATGATGTCTTTAGCC
 CAAGAACTACAGAGCCCTGAAGACTGCATCCAGCTGTTGAAGAAGCTCATTAGATTGCCTAATATACCTC
 ATCAGTGTGGCTTACGCTTCAAGTATTTTCAAGCTCTCTCAAGCCTCCAGCAAAAA
 CCTTTTGAATGCAAGAGTCTCTGAGATTTTACGCCCGTGCTTTTCAAGATTTCCAGCCGCCAGCTCT
 GATAACTGAACACCTCATAAAAGCGATAGAGATTTTAACTCAACGGAATGGAATGAGAGACAGCCAG
 CACCAGCACTGCCCCCAAAACCACCAAGCCCACTACTGTAGCCAACAACAGCATGAACAACAATATGTC
 CTTGCAGGATGCTGAATGGTACTGGGGAGACATCTCAAGGGAAGAAGTGAATGAAAACTCCGAGACACT
 GCTGATGGGACCTTTTGGTACGAGACGATCTACTAAAATGCACGGCGATTACACTCTTACACTAAGGA
 AAGGAGGAAATAACAAATTAATCAAAATCTTCCCGTATGAAAAATATGGCTTCTGATCCATTAAG
 CTTCAACTCTGTGGTTGAGTTAATAAACCACTACCGGAATGAGTCTTTAGCTCAGTACAACCCCAAGCTG
 GATGTGAAGTTGCTTACCCAGTGTCCAATACCAGCAGGATCAAGTTGTCAAAGAAGATAATATTGAAG
 CTGTAGGGAAAAAATTACATGAATATAATACTCAATTTCAAGAAAAAAGTCGGGAATATGATAGATTATA
 TGAGGAGTACACCCGACTTCCCAGGAAATCCAATGAAAAGAACGGCTATCGAAGCATTTAATGAAACC
 ATAAAAATATTTGAAGAACAATGCCAAACCAGGAGCGGTACAGCAAAGAATACATAGAGAAGTTTAAAC
 GCGAAGGCAACGAGAAAGAAATCAAAGGATTATGCATAACCATGATAAGCTGAAGTCGCGTATCAGTGA
 GATCATTGACAGTAGGAGGAGTTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTACCGAGAGATCGAC
 AAACGCATGAACAGTATTAAGCCGACCTCATCCAGTTGAGAAAGACAAGAGACCAATACTTGATGTGGC
 TGACGCAGAAAGGTGTGCGGCAGAAAGCTGAACGAGTGGCTGGGGAATGAAAAACCGAAGATCAATA
 CTCCTGGTAGAAGATGATGAGGATTTGCCCCACCATGACGAGAAGACGTGGAATGTCCGGGAGCAGCAAC
 CGAAACAAAGCGGAGAACCTATTGCGAGGGAAGCGAGACGGCACTTTCTTGCCGGGAGAGCAGTAAGC
 AGGGCTGCTATGCCTGCTCCGTAGTGGTAGACGGCAAGTCAAGCATTGCGTCATTAACAAGACTGCCAC
 CGGCTATGGCTTTGCCGAGCCCTACAACCTGTACAGCTCCCTGAAGGAGCTGGTGTACATTATCAACAC
 ACCTCCCTCGTGCAGCACAATGACTCCCTCAATGTCACACTAGCATACCCAGTATATGCACAACAGAGGC
 GATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001077495
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_001077495.2</u> , <u>NP_001070963.1</u>
RefSeq Size:	6928 bp
RefSeq ORF:	2175 bp
Locus ID:	18708
UniProt ID:	<u>P26450</u>
Cytogenetics:	13 53.92 cM
Gene Summary:	<p>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 (By similarity). Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348926).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (2).</p>