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Product datasheet for MC205622

Pik3r2 (NM_008841) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r2 (NM_008841) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pik3r2
Synonyms:	p85beta
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC006796
CGGACGCGTGGGCGCGGCGACGGTGGCTGACGCAGGGATCCCGCGGCTGCGGCGACGGCGGCGGCGGTCG
TGGTGGTGGCGACGGCGGCCGGAGTGGGCTGGTGTCCCCGGCTGAGCATGGTAGCAGCCTGTGGTCTGGG
TCCCTTCGTCTGGTGTCAGGCACATCTTGAAGAGCCAGTAAGCCTGGGCACCCACAGCCCAGCTAATGAA
GGAGTGATCCACCTATCCCAGCTTGACCATCTGATGGGTGACACAAGCCAAATAATTTGAGAAAACACCA
GGAACATCATTGCACAGGTGACTAAATGGTGGCCTCTGTGACAGATGGCCATCTAGGCATGTGCGGCCCC
CGAGGTCGCCTGTGACTTCTGGAAGTAGAGGTCTACAAGCCCACCACACAGGCCGCACCAGCCCATGGGG
TCCCTAGAGCCCCGGGGAGCCAGCTGACGGTCCAGAACCCCCCAGGCCAGCCATGGCAGGAGCCGAGGGC
TTCCAGTACAGGGCTGTGTACCCATTCCGCCGGGAGCGGCCTGAAGACCTGGAGCTGCTCCCTGGGGACC
TCCTGGTGGTGAGCCGGGTGGCCCTACAGGCACTTGGTGTGGCTGATGGAGGAGAGCGCTGCCCACACAA
TGTGGGCTGGATGCCTGGCTTCAACGAGCGCACCCGACAGCGAGGGGACTTCCCCGGGACATACGTGGAG
TTCCTAGGACCCGTGGCTCTGGCTCGACCAGGCCCTCGCCCACGGGGGCCCCGTCCGTTGCCCGCCAGGC
CCTTGGATGGATCTTCTGAGTCAGGCCACATACTCCCAGACCTGGCAGAGCAGTTCTCCCCACCTGACCC
TGCTCCCCCGATTCTGGTGAAGCTGGTGGAAGCCATTGAGCAAGCAGAGCTGGACAGTGAATGCTACAGT
AAGCCGGAGCTGCCCGCAACACGGACAGACTGGTCCCTGAGTGACTTGGAGCAGTGGGACCGCACCGCCT
TGTATGATGCTGTTAAGGGCTTCCTGCTGGCGTTGCCTGCAGCTGTGGTGACCCCTGAAGCTGCAGCAGA
GGCGTACCGGGCACTTCGAGAGGTTGCAGGCCCCGTGGGGCTGGTGCTGGAACCCCCAACACTGCCGCTG
CACCAGGCTCTCACACTGCGTTTCCTGCTGCAACACCTGGGTCGCGTGGCCCGCAGAGCACCCTCGCCAG
ATACAGCTGTCCATGCACTGGCCAGTGCCTTCGGGCCGCTACTGCTGCGCATACCTCCGTCAGGGGGCGA
GGGTGATGGGAGTGAGCCTGTACCCGACTTCCCTGTGCTGCTGCTAGAGAGGCTGGTGCAGGAGCATGTG
GAGGAGCAAGACGCTGCCCCCCCAGCGCTACCACCTAAGCCCTCTAAGGCAAAGCCGGCACCCACAGCTC
TGGCCAATGGAGGGAGCCCGCCCTCGCTTCAGGATGCAGAGTGGTACTGGGGGGACATCTCCAGGGAAGA
GGTGAATGAGAGACTCCGGGACACACCTGATGGTACCTTCTTAGTCAGAGATGCATCCAGCAAGATCCAA
GGAGAGTACACGCTCACCCTCAGGAAAGGCGGGAACAACAAGTTGATCAAAGTCTTCCACCGGGATGGTC
ACTATGGCTTCTCAGAGCCCCTTACCTTCTGCTCCGTGGTGGAACTCATCTCCCACTACCGCCACGAATC
ACTGGCCCAGTACAACGCCAAGCTGGACACACGCCTTCTCTACCCTGTGTCCAAGTACCAACAAGACCAG
GTGGTGAAGGAGGACAGCGTAGAGGCTGTGGGCGCCCAGCTCAAGGTCTACCACCAGCAGTACCAGGACA
AGAGCCGCGAATATGACCAGCTGTATGAAGAATACACACGGACCTCCCAGGAGCTGCAGATGAAGCGCAC
AGCCATAGAGGCCTTCAACGAGACCATCAAGATCTTCGAAGAGCAGGGCCAGACACAGGAGAAGTGCAGC
AAGGAGTATTTGGAGCGCTTCCGGCGAGAGGGAAATGAGAAGGAGATGCAGAGGATCCTGCTGAACTCCG
AGCGACTCAAGTCTCGCATCGCGGAGATACACGAAAGCCGCACGAAGTTGGAGCAGGATCTGCGGGCGCA
GGCCTCCGACAACCGTGAGATCGACAAGCGCATGAACAGCCTCAAACCTGACCTCATGCAGCTGCGCAAG
ATCAGGGACCAGTACCTCGTGTGGCTCACCCAGAAAGGTGCCCGACAGAGGAAGATCAACGAATGGCTGG
GAATCAAGAACGAGACTGAGGACCAGTATTCACTGATGGAGGATGAGGACGCCCTCCCCCACCACGAGGA
GCGCACGTGGTACGTGGGCAAGATCAACCGCACACAGGCGGAGGAGATGCTGAGTGGCAAACGAGACGGG
ACCTTCCTCATCCGGGAGAGCAGCCAGCGGGGCTGTTACGCATGCTCCGTGGTGGTGGACGGCGACACGA
AGCACTGTGTCATCTACCGCACAGCCACCGGCTTCGGCTTCGCAGAGCCCTATAACCTGTACGGGTCCCT
GAAGGAGCTGGTGCTGCACTACCAGCACGCATCACTCGTGCAGCACAATGACGCACTTACCGTCACCCTC
GCACACCCTGTGCGTGCCCCCGGGCCTGGCCCACCGTCTGCAGCACGCTGAGCGCCCACCTCGCCTGCCT
CCCTGTCCATGTCTGTCTCCAGATCCCCTCCCCTGGTGAACACGCGCAGGAGGCCATCCCTCCCGCTGCG
CCTGCCATGTTTACAGAGGCTGTGGGGCCACTGGCCTGGGCGCCCTGAGTTCTTCAAGCCATATACCCGG
GGTTAGAAAGGAACCGCGCTAGGTGGTTTCCAGGAACTCAGGCCTGGACACTCGGGGCCGGGCGGGACCC
GCCCCGCGGACCCCAACTTCCCCTCTTAAGGTCGAAGTGAAACCAGTCACAGGGGGTTACCCCGCAGCTG
CAGAGAATCTTCCCCACTCTGGCGGGCAAAATACAAACTCTGGCCCTCGCCCAGGCCCTGCGCTGTTCTC
CAGACTGTGCAATCTCCTCCCCTTTGGGACAAGGGCCCTGGGTGTGTCCCTGCTCCCTGGACCCCATACC
TGCCCAGGGTGGATGGGCAGCAGGTTTTGTACGGTACATTTATTGATACGAATATGAAACATTGTACCTG
TTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_008841

Insert Size: 2169 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:	BC006796, AAH06796
RefSeq Size:	3194 bp
RefSeq ORF:	2169 bp
Locus ID:	18709
UniProt ID:	O08908
Cytogenetics:	8 34.15 cM
Gene Summary:	Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (By similarity). Promotes 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]