

Product datasheet for RN207973

Ptk2b (NM_017318) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptk2b (NM_017318) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ptk2b
Synonyms:	CAKB; CAK beta; CAKbeta; Pyk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN207973 representing NM_017318 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGGTGTCTGAGCCCTGAGCCGTGTAAAAGTGGGCACTTTGCGCCCGCCGAGGGCCCCCAG
AGCCCATGGTAGGTACCAGTAGACGTGGAGAAGGAAGCGTGCATCCTCAAGGTCTGCTTCTACAG
CAACAGCTTCAACCCAGGAAGAAGTCAAGCTTGTCAAATGCACAGTGCAGACAGAGATCCAGGAGATC
ATCACCTCCATCCTCCTGAGTGGGCGAATAGGGCCCAACATCCAGCTGGCTGAATGCTATGGGCTGAGGC
TGAAGCAGATGAAGTCAGATGAGATCCACTGGCTGCACCCACAGATGACTGTGGGCGAAGTGCAGGACAA
GTATGAATGTCTACACGTGGAGGCTGAGTGGAGGTATGACCTTCAAATCCGCTATTTGCCAGAAGACTTC
ATGGAGAGCCTGAAAGAAGACAGGACTACACTGCTGTACTTTTCAACAGCTCCGGAATGACTACATGC
AACGCTATGCCAGCAAGGTCAAGTGAAGGCATGGCTCTGCAGCTGGGCTGTCTGGAGCTCAGGAGATTCTT
CAAGGACATGCCCCACAATGCACCTTGACAAAAAGTCCAACCTTTGAACTCCTGGAAAAAGAAGTCCGGTCTG
GACCTGTTTTTCCCAAAGCAAAATGCAGGAAAAGTAAAGCCCAAGCAGTCCGGAAGATGATCCAGCAGA
CCTTCCAGCAGTATGCATCACTCCGGGAGGAAGAGTGTGCATGAAATTTCAACTCTGGCAGGCTT
TGCCAACATCGACCAGGAGACCTATCGCTGTGAACTCATTCAAGGGTGGAAACATTAAGTGGACCTGGTC
ATTGGCCCTAAAGGCATCCGTCAGCTGACAAGTCAAGACACAAAGCCACCTGCCTCGCCGAGTTCAAGC
AGATCAGATCCATCAGGTGCCTCCCCTTGGAGAGACCCAGGCAGTACTGCAGCTGGGCATCGAGGGTGC
CCCCAGTCCCTTGTCCATCAAAACCTCGTCCCTGGCAGAGGCTGAGAACATGGCTGACCTCATAGATGGC
TACTGCAGGCTTCAAGGAGAGCATAAAGGCTCTCTCATCATTGATGCAAGAAAGATGGTGAAGAAGGA
ACAGCCTGCCTCAGATCCCCACACTAACCTGGAGTCTCGGCGGTCCCACCTCTCAGAAAGCTGTAGCAT
AGAGTCAGACATCTATGCAGAGATTCTGATGAGACCCTGCGAAGGCCAGGAGGCCACAGTATGGTGT
GCCCGTGAAGATGTAGTTCTTAACCGCATTCTGGGTGAAGGCTTCTTCGGGGAGGTCTACGAAGGTGTCT
ACACGAACCATAAAGGGGAAAAAATTAATGTGGCCGTCAAGACCTGTAAGAAAGATTGTACCCTGGACAA
CAAGGAGAAGTTCATGAGTGAAGCAGTATCATGAAGAATCTTGACCACCCTCACATCGTCAAGCTGATT
GGCATCATTGAAGAGGAACCCACATGGATCGTCATGGAAGTGTATCCTTATGGGGAGCTGGGACACTACC



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TGGAGCGAAATAAAAATCCCTGAAGGTACCCACTCTGGTCTGTACGCTCTGCAGATATGCAAAGCCAT
GGCCTATCTGGAGAGCATCAACTGTGTCCACAGGGATATTGCTGTCCGGAACATCCTGGTGGCCTCTCT
GAGTGTGTGAAGCTCGGGGACTTTGGGCTCTCCCGGTACATTGAGGATGAGGACTATTACAAAGCTTCCG
TGACCCGTCTCCCATCAAAATGGATGTCCCGGAGTCCATCAACTTTCCGCGCTTTACAACCGCCAGTGA
CGTCTGGATGTTTGTGTATGCATGTGGGAGATCCTCAGCTTTGGGAAGCAGCCTTTCTTCTGGCTTGAA
ACAAGGATGTCATCGGGGTGCTGGAGAAAGGGGACAGGCTGCCTAAGCCCGAAGCTGCCCCGCTGTCC
TTTACACACTCATGACCCGCTGCTGGGACTATGACCCAGCGACCGGCCCGCTTTACGGAGCTTGTGTG
CAGTCTCAGTGACATTTATCAGATGGAGAGGGACATTGCAATAGAACAAGAAAGGAACGCTGTTACCGA
CCCCCAAATATTGGAGCCCACTGCTTTTCAGGAACCCCAACCAAGCCAGCCGGCCCAAGTACAAAC
ACCCTCCACAGACCAATCTGCTGGCTCCTAAGCTGCAGTTCAGGTCCCTGAGGGTCTGTGTGCCAGCTC
TCTACACTTACGAGCCCTATGGAGTATCCATCTCAGTTAACTCGTGCACACCCCGCCTCTGCACCGA
CACAATGTCTTCAAGCGCCACAGCATGCGGGAGGAGGACTTCATCCGGCCAGTAGTCGAGAAGAGGCC
AGCAGCTCTGGGAGGCAGAGAAGATCAAGATGAGGCAGGTCTAGACAGACAGCAGAAGCAAATGGTGA
AGATTCCAGTGGCTGAGGCGGGAGGAAAGATGCTTGGACCCGATGGTTTATATGAATGACAAGTCCCA
CTGACCCAGAGAAGGAGCCGGCTACACGGAGTTCACAGGGCCCCCAGAAGCCACCAGGCTCGGTG
CACAGTCCATCCAGCCTACAGCCAATTGGACAGGACTGATGACCTCGTGTACCACAATGTCATGACCC
GGTGGAGGCCGTGCTGGAACAAGCTCAGCCAGCTGCCTCCTGAGGATATGTGGTGGTGGT
AAGAATGTGGGGCTGAACCTGCGGAAGCTCATCGGTAGCGTGGACGATCTCTACCTCCTTGCCAGCAT
CTTCTAGAACAGAGATTGAAGGGACCCAGAAACTGCTCAACAAAGACCTGGCAGAGCTCATCAACAAGAT
GAGGTTGGCTCAGCAGAACGCTGTGACATCCCTAAGTGAAGGACTGCAAGCGGCAGATGCTCACAGCATCC
CATACCTGGCTGTGGATGCCAAGAACCCTGGATGCTGTAGACCAAGCCAAGGTTGTGGCTAATCTGG
CCCACCCGCTGCAGATGA

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_017318

Insert Size: 3030 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_017318.2](#), [NP_059014.2](#)

RefSeq Size: 3907 bp

RefSeq ORF: 3030 bp

Locus ID: 50646
UniProt ID: [P70600](#)
Cytogenetics: 15p12
Gene Summary: may phosphorylate focal adhesion kinase FAK; may play a role in actin cytoskeleton reorganization; may mediate thrombin induced astrocyte proliferation [RGD, Feb 2006]