

Product datasheet for **RR207973**

Ptk2b (NM_017318) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptk2b (NM_017318) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptk2b
Synonyms:	CAKB; CAK beta; CAKbeta; Pyk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207973 representing NM_017318 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGGTGTCTGAGCCCTGAGCCGTGTAAAAGTGGGCACTTTGCGCCCGCCGAGGGCCCCCAG
AGCCCATGGTAGTGGTACCAGTAGACGTGGAGAAGGAAGCGTGCATCCTCAAGGTCTGCTTCTACAG
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TGGAGCGAAATAAAAATCCCTGAAGGTACCCACTCTGGTCTGTACGCTCTGCAGATATGCAAAGCCAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGTTTAA

Protein Sequence:

>RR207973 representing NM_017318
 Red=Cloning site Green=Tags(s)

MSGVSEPLSRVKVGLRPPPEPPEPMVVVVDVEKEDVRIKVKCFYSNSFNPKNFKLKCTVQTEIQEI
 ITSILLSGRIGPNIQLAECYGLRLKHKMSDEIHWLHPQMTVGEVQDKYECLHVEAEWRYDLQIRYLPEDF
 MESLKEDRTLLLYFYQQLRNDYMQRYASKVSEGMALQLGCELRFFKDMPHNALDKSNFELLEKEVGL
 DLFFPKMQENLKPQFRKMIQQTFQYASLREEECVMKFFNTLAGFANIDQETYRCELIQGWNITVDLV
 IGPKGIRQLTSQDTKPTCLAEFKQIRSIKPLLEETQAVLQLGIEGAPQSLSIKTSLLAEENMADLIDG
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 AREDVVLNRILGEGFFGEVYEGVYTNHKGEKINVAVKTCCKDCTLDNKEKFMSEAVIMKNLDHPHIVKLI
 GIIEEPTWIMELYPYGELGHYLERNKNSLKVPTLVLYALQICKAMAYLESINCVHRDIAVRNIVASPV
 ECVKLGDFGLSRYIEDEDEYYKASVTRLPIKWMSPESINFRFTTASDVWMAVCMWEILSFGKQPFWLE
 NKDVIQVLEKGDRLPKPELCPVLYTLMTRCWDYDPSDRPRFTELVCSLSDIYQMERDIAIEQERNARYR
 PPKILEPTAFQEPKPSRPKYKHPQTNLLAPKLQFQVPEGLCASSPTLTSPMEYSPVNSLHTPPLHR
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 LTPEKEAGYTEFTGPPQKPPRLGAQSIQPTANLDRDLDL VYHNVMTLVEAVLELKNKLSQLPPEEYVVVV
 KNVGLNLRKLIQSVDDLPSLPASSRTEIEGTQKLLNKDLAELINKMRLAQNAVTSLSLSEDCKRQMLTAS
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

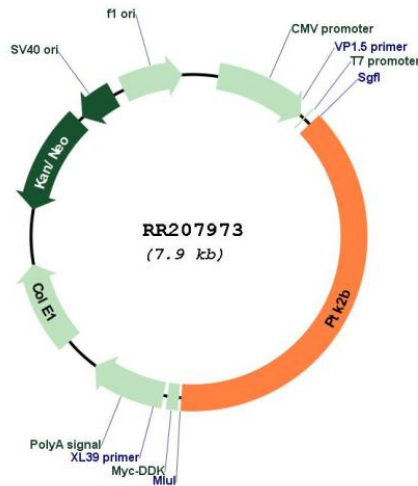
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_017318

ORF Size: 3027 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_017318.2</u> , <u>NP_059014.2</u>
RefSeq Size:	3907 bp
RefSeq ORF:	3030 bp
Locus ID:	50646
UniProt ID:	<u>P70600</u>
Cytogenetics:	15p12
MW:	115.8 kDa
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]