

## Product datasheet for **RR207150**

### Pik3c2b (NM\_001105951) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pik3c2b (NM\_001105951) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pik3c2b  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR207150 representing NM\_001105951  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTTCGACTCAGGGCAATGGGGAGCACTGGAATCCCTGGAGTCGGTGGGCATCAGCCGAAAGAGC  
TGGCTATGGCTGAAGCCCTGCAGATGGAGTATGATGCTCTTCCCGGCTCCGACATCACAAGGAGGAGAG  
CAGGGCCAAGCAAAACACAGAGCCCTCTCTTATCAGCTGGGATGAGCCAGCCTTGGACTTCTACAGCAAG  
CCAGCAGGCAGGCGGACAGAGCTCAAGCTCTGGGTGGTCTTCTGGCTCTGATCCCACCCTAAATTACA  
ACTCCATTTCCCAACAGAGCTCCCAACTCTACCTCCCAGGACCCACAGCCTGGCAGATCCCTG  
GCCAAGGGCTCCCAATCTGGAGACTATCTCTATATTTTTGATGGCTCAGATGGGAGATGCTCTGTCT  
CCAGTATCAGGTGACACCGATGGCTCTTGTAAAGAACTATCCCCACCTCCTCCTCCTCGGGTCTCTA  
TCTGGGATGCCCTCCCTGCCTCCTAGGAAGGGATCTCCCTCACCTCCAAGATCTCTCAGCCTGATGA  
CATCAACAGTTTCTTTGGTGGACAGCCATCTGACAACTGCTAGGGGCCAGGACCCAGGAGAGGGA  
GAGCTACCAATGGTGGGGACAGCGACATGTGCTGGGTCCGTGGACTATGACGGCATCAATGATGCAA  
TCACGAGGCTCAACTTGAAGTCCACTTACGATTCGGAGATATTGTCTGACGCTACCAGGGCTGGAAGGA  
GGGCCGAGGACCCCTGGACTTTAGCAAGGACACCTCTGGGAAACCTGTAGCCCGAGCAAGACGATGCC  
CCTCAAGTGCCCCCTCGAACCTATACGCCCGGATACGCCAACCGAAAAACGCAACACCTGGCAAGAACC  
GCCGGATATCTGCCGCTCCGGTGGAGCTCTCGGACCCACACTGTCACCAATGGCCATGAATTGTTGAGGT  
CTCAGAGGAGAGAGATGAGGAAGTTGCTGCGTTCTGCCACATGCTAGATATCCTGCGCACGGGCTCTGAT  
ACCCAGGACTATCCCTAACTGGGTGTGTCTGGAGCACTGTACCCCGAGCCAGAGCACCTTGGGGATG  
AGGTCAACCTGAAGGTGACTGTGTGTGACAGTCTTCGGGAGCCACTCACCTTACCTGCAACTGTTC  
CTCCACCGTGGACTTGCTCATTTACCAGACCCTGTCTACACCCAGCAGAGCTGAGGGAGGTGGATGTG  
GGCGACTTTGTGCTCAAGCCCTGTGGGCTGGAGGAATTCCTGAAAATAAGCACGCCTTGGGAAGCCATG  
AGTATATCCAACACTGCCGCAAGTTTGACATCAACATCCGACTACAGCTGATGGAGCAGAAGGCTATCCG  
GAGCGACCTGGCCCGGACGGTGAATGATGACCAGAGCCCTTCCACCTTGAACCTCATCCATCTTCAA  
GAGCGGCCAGTCAAGCAGACCATCAGCAGGCAGGCCTTGAGTCTTCTGTTTGACACTTACCACAATGAGG  
TGGATGCCTTCTACTGGCTGAAGGGGATTTCCCACTGAAGGCTGACAGGGTGGTCCAGTCTGTGAAGGC  
CATCTGCAATGCTCTGGCTGCTGTGGAGACTCTGAGATCAGAGTGCTCTCAACCAGCTGCCTCCCTGC



[View online >](#)

CCGTACGAATGCAGCCGAAAATCCAGAAGAAGGTGGTAGAAGCCTTGACAGCAGCCATCTTGGACTTAG  
 TGGAGCTGTA CTGCAGCACATTCATGCAGACTCCAGACAGCCGTACCTGGGAGCCGAAAAGCATGATTT  
 GGTTCAAGAGGCCTGCCACTTCTCTGGGGCCCTGGCCTTCACTGTCTATGGCACTCACCGTATCCCATC  
 ATCTGGGTACCAGCTATGAAGATTCTACCTCTCTGCTCCCTCAGCCACGGTGGCAAGGAACTTTGCA  
 GCCCTCTGCAGACCCGGCGGGCTCACTTCTCCAAGTACCTGTTCCACCTCATCATCTGGGACCAGCAGAT  
 CTGCTTTCCCGTGCAGGTGAACAGGCTGCCTCGGGAGACCCTGCTGTGTGCCACTCTATGCCCTGCC  
 ATCCCCCTCCCGGAGTTCCTCCGAAGCCAATAGCAGAAGCGGGTGCCTGAAGCTCTGGTTGGGTCA  
 CTACCCCTCTTCAACTTCAGGCAAGTCTTGACCTGTGGCCGAAAGCTTCTGGGCTTGTGGCCAGCAAC  
 ACAGGAGAACTCCAGTGCCCGTTGGAGTGACCAAATTTCCACCAGCCAGACAGTGCATCTCTGCAGATT  
 GACTTCCCACCTCGGCCTTTGACATCAAGTTCACCAGCCCCCTGGAGACAAGTTCAGCCCCCGCTATG  
 AGTTTGGCAGTCTCCGGGAGGAGACCAGCGCAAACCTAAAGACATTACGCAGAAGGAGTCCCTTACTG  
 GCTCTCTGATGCCGACAAGAAGCAACTGTGGGAGAAGCGCTATTACTGCCACTGAGGTGAGCTCGCTC  
 CCCTTGGTCTGCCAGTGCACCAGTGGGAGTGGCTTGCTGCCGGACATCTATGCTCTCTGCAAC  
 AGTGGACTCACATGAACCACCAGGATGCCCTGGGACTCCTGCATGCCACCTTCCCGACCAGGAGGTGCG  
 GCGCATGGCCGTGCAGTGGATCGCTCCCTCTCGGATGCTGAGCTGTTGGACTACCTGCCCCAGCTAGTA  
 CAGGCCCTGAAGTACGAGTGTACTCTGGATAGCCCTTGGTGCCTTTCTCTGAAGCGAGCCATCTCCG  
 ACCTGCGAGTGACCCACTACTTTTTCTGGTTACTGAAGGACAGCCTCAAGGACTCCCAGTTCAGCATCCG  
 TTACCAATACCTGCTAGCGGCCCTGCTGTGCTGCTGTGGCAAGGGACTGAGGGAGGAGTTAACCGCCAG  
 TGCTGGCTTGTCAATACCTGGCCAACTGGCCAGCAGGTCCGAGAGGCCACCCCATCTGCACGCCAGG  
 GCATCCTTCGTGCGGGCTTGGAGAGGTGAGGCAGTCTTTGCTCTCAATGGTTCGTGCCGTCTGCCGT  
 TAGCCCCAGTCTGCTGGTAAAGGCATTGTGCCAGGGACTGTTCTATTTCAACTCCAATGCTGTCCCC  
 CTCAAGCTTGCCTTCCAAAATGTGGATCCACTGGGCGAGAATATCAGAGTCATCTTCAAGTGTGGAGATG  
 ACCTTCGCCAGGACATGCTCACCTGCAGATGATTCGCATCATGAGCAAGATCTGGGTGAGGAGGGCT  
 GGATATGCGCATGGTCATTTTCCGCTGCTTCTCACTGGCCGAGGAAAAGGGATGGTGGAGATGATACCC  
 AATGCCGAGACTGCGTAAGATCCAGGTGGAGCATGGGGTGACCGCTCCTTCAAGGACGTCCCTGG  
 CTGACTGGCTTCAAGAAGCACAACCTGGGGAGGATGAATATGAAAAGGCTGTGGAGAAGTTCATCTACTC  
 TTGTGCCGGCTGCTGTGTGGCTACATACATCTTGGGCATCTGTGACAGACACAATGACAACATCATGCTG  
 AAGACCACGGCCACATGTTCCATATAGACTTCGGCCGCTTCTGGGCCACGCGCAGATGTTGCGTAATA  
 TCAAGAGGGACCGCGCCCGTTTGTCTTCACTCAGACATGGCGTATGTCATCAACGGGGGTGACAAGCC  
 TTCCAGCCGCTTCCATGATTTTGTGACCTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG  
 CTCTTCTCAACCTCCTGGCCCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG  
 AGTATGTGATGATGCCCTGAGACCTCAGGACACGGAGGCAATGCCACTACCTACTTACAAGGTTGAT  
 TGAGTCCAGCTTGGGACGCTAGCTACGAACTCAACTTTTTTATCCACAACCTGGCTCAGATGAAGTTC  
 ACAGGCTCAGACGACCGGCTCACCTCTCCTTTGCCCCCGAACACATACTCTCAAGAGCTCTGGCCGCA  
 TCCGTGATGTCTTCTCTGCCGACATGAGAAGTCTTCCACCCTAGCAAGGGCTATATCTATGTGGTGAA  
 GGTGATGCGAGAGAACGCTCACGAGGCAACCTACATCCAGAGGACGTTCCGAGGAGTTCAGGAAGTGCAC  
 AATAAGCTGCGCTGCTTCCCTTCTCCTTCTGCCCAGCTCCCTAGTCGGTTTGTGATTGGCCGCT  
 CCCGGGAGAGGCAGTGGCTGAGAGGCGGAAGGAGGAGCTAAATGGCTACATCTGGCACTTGATTCATGC  
 AGCCCCGAAGTGGCTGAGTGTGACCTGGTATATACTTTCTTCCATCCTCTGCCCGCGATGAGAAGACT  
 TCAGGCCCTAGCCAGCCCCGAAGTTCATCAGATGGGACGTGGGCCGCGCGGTTGGGAAGGTCGGTGGGG  
 AGGTGAAGCTGTCCATTTCTACAAAAACAACAACTTTCATCATGGTGTGATGATATTCGGGGCTTGCA  
 ACCGCTCCAGGATGGCAGTGACCCTGACCATATGTAAGATTTACCTCCTTCTGACCCTCAGAAAAGCC  
 ACAAGAGGAAAACAAAGTAGCCCGAAAACCTGCAACCCTACCTACAATGAGATGTTGGTGTATGATG  
 GGATCCCAAGGGAGACCTACAACAGGGGAGCTCCAGTTGAGTGTGCTAAGTGAGCAAGGATTTGGGA  
 GAACGTGCTTCTCGGGAGGTGCACATCCGCTTCCGGAGCTGGACCTGGCCAGGAGAAGACCGGCTGG  
 TTTGACTGGGATCTCGAGGTCATGGAACCTTA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RR207150 representing NM\_001105951  
 Red=Cloning site Green=Tags(s)

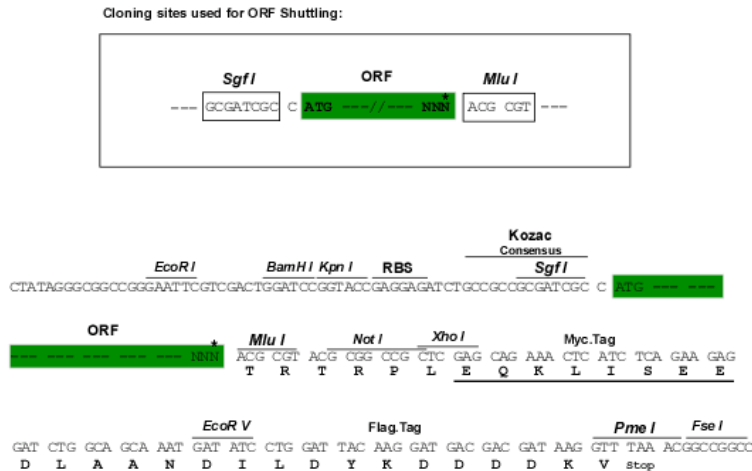
MSSTQNGEHWSLESVGISRKELAMAEALQMEYDAL SRLRHHKEESRAKQNTPEPLISWDEPALDFYSK  
 PAGRRETELKLLRGLSGSDPTLNYSISPPEELPNSTSQDPQPGTDPWPKGSQSGDYLYIFDGS DGRCSLS  
 PVS GDTDG SCKKLSPPPLPPRVSIWDAPPLPPRKGSPSPKISQPDDINSFSLVEQPSDKLLGAQDPGEG  
 ELPNGGGQRHVLGSVDYDGINDAITRLNLKSTYDSEILSDATRGWKEGRGPLDFSKDTS GKPVARSKTMP  
 PQVPPRYTPRYANRKNATPGKNRRISAAPVSSRTHVTNGHELFEVSEERDEEVAAFCHMLDILRTGSD  
 TQDYSLTGCVWSTVTPSPEHLGDEVNLKVTVLCDSLREPLTFTCNCSSTVDLLIYQTL CYTHDELREVDV  
 GDFVLKPCGLEEFLQNKHALGSHEYIQHCRKFDINIRLQLMEQKAIRSDLARTVNDQSPSTLNYLIHLQ  
 ERPVKQTI SRQALSLLFDTYHNEVDAFLAEGDFPLKADRVVQSVKAICNALAAVETPEITSALNQLPPC  
 PSMRQPKIQKKVVEAL TAAILDVELYCSTFNADFQTAVPGRKHDLVQEACHFSGALAFVYVYGTHRIPI  
 IWATSYEEFFYLSCSLSHGGKELCSPLQTRRAHFSKYL FHLIIWDQQICFPVQVNRLPRETLLCATLYALP  
 IPPPGSSSEANKQKRVEALGWVTTPLFNFRQVLT CGRKLLGLWPATQENSSARWSAPNFHQPDSVILQI  
 DFPTSAFDIKFTSPPGDKFSPRYEFGSLREEDQRKLDITQKESLYWLSADAKKQLWEKRYRYCHTEVSSL  
 PLVLASAPSWEWACLPDIYALLQQWTHMNHQDALGLLHATFPDQEVRRMAVQWIGSLSDAELLDYLPQLV  
 QALKYECYLDSPVRFLLKRAISDLRVTHYFFWLLKDSLKDSQFSIRYQYLLAALLCCCCKGLREEFNRO  
 CWLVNTLAKLAQQVREATPSARQGILRAGLEEVRQFFALNGSCLPLSPSLLVKGI VPRDCSYFNSNAVP  
 LKLAQFQNVDP LGENIRVIFKCGDDLQDMLTLQIMIRIMSKIWVQEGLDMMVIFRCFSTGRGKGMVEMIP  
 NAETLRKIQVEHGVTS GFKDRPLADWLQKHNPGEDEYEKAVENFIYSCAGCCVATYILGICDRHNDNIML  
 KTTGFMFHIDFGRFLGHAQMFGNIKRDRAPVFTSDMAYVINGGDKPSSRFHDFVDLCCQAYNLIRKHTH  
 LFLNLLGLMLSCGIPELSDLEDLKYVYDALRPQDTEANATTYFTRLIESSLGSVATKLNFFIHNLAQMKF  
 TGSDRLTL SFAPRTHTLKSSGRIRDVFLCRHEKVFHPSKGYIYVVKVMRENAHEATYIQRTEFEFQELH  
 NKLRLLPSSFLPSFSPRFVIGRSRGEAVERKEELNGYIWHLIHAAPEVAECDLVYTFHFPLPRDEKT  
 SGPSPAPKSSDGTWARPVGKVGGEVKLSISYKNNKLFIMVMHIRGLQPLQDGSDDPYVKIYLLPDPQKA  
 TKRKTKVARKTCNPTYNEMLVYDGIPKGD LQQRELQLSVLSAQGFWENVLLGEVHIRLRELDLAQEKTGW  
 FALGSRGHGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

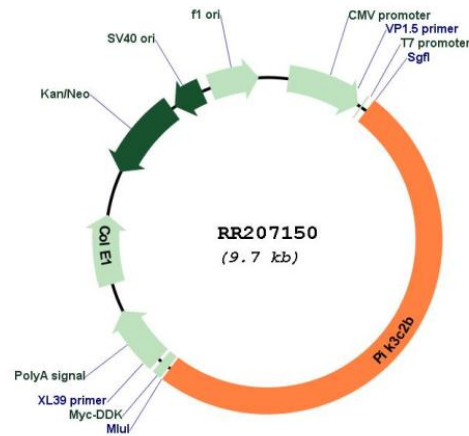
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001105951

**ORF Size:** 4863 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:**

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\\_001105951.1](#), [NP\\_001099421.1](#)

**RefSeq Size:** 5340 bp

RefSeq ORF: 4866 bp  
Locus ID: 289021  
Cytogenetics: 13q13  
MW: 183.1 kDa