

Product datasheet for **RR209284**

Pde3b (NM_017229) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pde3b (NM_017229) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Pde3b
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR209284 representing NM_017229
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGAAGGACGAGCGCGAGCGGGACACGCCAGCCATGAGGTCCCCGCCGCCGCCGCCGCCGCCGCCA
 CGGCCACGGCCGCTCGCCCCGAGAGCTGCGCAACGGCTACGTGAAGAGCTGCGTGAAGCCGCTGCG
 GCAGGACCTCCGCGCAGCTTCTTCTCCACCTGCGCGCTTCTGCAACGTGGAGCCGCCGCCGCCCTCG
 CTCGCGCGGGGACGCGCTCTCGCTCGCGCTCTGGCCGCTTGTCTGGCCGCGCTGCTGGGCGCGG
 GGCCCGAGCGCTGGGCGCGCGCGGACCGGGTTCGGACGCTGCTGAGCGCTTGTCTCGCTCAGCCTCAG
 CCCGCTTTCAGCATCGCTGTGCCTTCTTCTCCTCACCTGCTTCTGACGCGCGCGCAGCGCGGCCCG
 GACCGCGCGCGGCTCCTGGTGGCTGTGGCGTGCCTGCCTGCTGCTACCTGGGCGACTTCGCGGCGT
 GGCAGTGGT
 CTGCGTGGGCTGCTGACGCTCGCGCTCGCGTGGGCTGCGGCACGGAGTCTGGTGGTGGTGGTGGT
 GGCTGGT
 GCCTGGTGGGCGCGGGATGCCTGCTAGCCCTGGGCTTGGACACTTCTTTCAGTCCGGGGAGCCTC
 ACCTCCCCGCGCTCGGCGAGTACCGCGGATGAAAAAGTGCCTGTGATCAGACCCCGAGGAGGTCCAGC
 TGGTGTGCTGGGAGAAAGCGCGCGGTTACTATGGCAGTGGCAAGATGTTTCAGGAGACCGTCTGTTGC
 CTTGATTTCTCGAGAACAGATGATTCTCTGGGACTGGGACTTGAAGCAGTGGTGTAAACCTCATTACCA
 GAATTCGAGGAGTGGAAATGGAGTTGATCTTTCAGTGTAAATGAAGCTCGCAATATGGTGTGAGACCTT
 CTGATTGACCAAGCCTTCCCCACAAGTCAATTTCTTCTTGGGAGTATCAGTAGCTTGGTGGTGGTGGT
 TCTCAGTTCTGTAGGCCAAAGATTAATTTTACACCATTTCTGGATTTTATCCCTGTTCTGAAGT
 AGAAGTCCAGTAGAGAAAGGCGATCGAAAACCTCACAAAGGGTTGAGTAGCAAACCCAGTTTCCCGACT
 GCACAGCTGAGGAGGAGCTCAGGAGCGTCAAGATTGCTGACCAAGTGGACCACTCAGGTGGGATCGCA
 GCGGTGGCAAAAAGCCTTACCAAGAAGTCAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TCAAACTTATGACAATTCAAAGCAGAGTCAATCATCTGTGTCGCTGACGCACCATGCAGGTCTGAGA
 AGAGCTGGT
 TAACTAATCGATCACCCGTAGGATTTCTGATACCAGTATTTTCTTACTAAGCCAAGTGTACTTTACA
 TAGATCACTGGGCGAGTATCCAGTGCAGCAGATTTCCATCAGTACCTTAGGAAGTCTGACAGCAGTCTG



TGTAGCAGCTGTGGACACCAAACTCAAGTATGTTTCGACATGTGAACCTGATGGTACAGACCACCACA
 ATGAAAAATCAGGTGAAGAAGACAGCACTGTTTCTCAAAGAACGATTGAACATTGTGGAACTCAAGA
 AGAAGAGACAGTGAAGGAAGACTGCAGGGAATTTTTTGGAAGGTGATGATCACCTAATGGAAGAGGCC
 CAGCAACCGAATATTGACCAGGAAGTGTATTGGACCCGATGTTAGTGGAAGATTATGATTCATTAATAG
 AAAAGTAGCAACTGGAACTTTCAGATTTTGTAGCTTGTAGAAAAATGGGAGAAAAATCAGGAAGGAT
 TCTCAGTCAGGTATGTATACTTTATTTCAAGATACTGGTTTATTGGAACATTTAAAATCCCCTCAA
 GAATTTATGAATTATTTTCGTGCACAGAAAAATGGCTACCGAGATATCCATATCACAATCGTGTGCATG
 CCACAGATGTCCTACATGCTGTTTGGTATTTGACAACACGACCAATTCCTGGCTTACAGCAGCTCCATA
 TAACCATGAAACAGAAACCAAAGCAGATTCAGATGCTAGACTTAGTTCTGGACAGATTGCTTACCTTCT
 TCGAAGAGTTGCTGATTCCAGATAAGAGTTATGGCTGCCTGTCTCAAACATTCTGCGTTAGAAGTGA
 TGGCTTTATATGTGGCAGCTGCCATGCACGATTATGATCACCCAGGAAGAACAATGCATTCCTAGTGGC
 TACAAATGCACCTCAGGCAGTTTTATACAATGACAGATCTGTTCTAGAAAAATCATCATGCCGCATCAGCG
 TGGAACTGTATCTTTCTCGCCAGAATAACAATCCTCCTAACCTTGATCACATGGAATCAAGCGTT
 TTCGATTTTTAGTCATAGAAGCAATCCTTGCTACAGATCTCAAAAAACATTTTGATTTCTTGTGATTT
 CAATGCCAAGGCCAATGATGTAATAGTAACGGTATAGAATGGAGCAGTAAAACGATCGACTCTTAGTC
 TGCCAGGTGTGCATCAAATAGCAGACATCAACGCCACAGCAAAGATCGGGATCTTCATTTGAGATGGA
 CAGAAGGCATTGTGAATGAGTTTTATGAGCAGGGAGATGAAGAAGCAACCTGGGTCTACCTATTAGTCC
 CTTTCATGGATCGTTCTTCTCCTCAACTAGCAAACTCAAAGATCATTTATCACCCACATTTGGGGCCC
 CTGTGCAACTCCTATGATGCTGCTGGCTTGGCTGCCTGGTCAAGGATAGAAGCAGAAGAGGGTGACGATA
 CAGAAAGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAAGAGTTAGATTCAGA
 TGATGAAGAAACAGAAGACAATCTAAATCCTAAACCACAAAGAAGGAAGGCAGCGCGCAATTTTTGC
 CAACTAATGCACCACCTCACTGAAAACCAAGATCTGGAAGGAATCATAGAAGAGGAAGAAAAATGTA
 AAGCTGAGGGGAACAACTGCAGGTGGATAATGCCTCCTTACCTCAGGCAGATGAGATTACAGTCATTGA
 AGAAGCAGATGAAGAGGAAGAACAATGTTTGA

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209284 representing NM_017229
 Red=Cloning site Green=Tags(s)

MRKDERERDTPAMRSPPPPPATATAASPELNRNGYVKSVCVSPLRQDPPRSFFHLCRFCNVEPPAAS
 LRAGARLSLAALAAFVLAALLGAGERWAAAAATGLRLLSACLSLSPFSLIACAFFFLTCTFLTRAQRGP
 DRGAGSWSLLALPACCYLGDFAAWQWWSWLRGEPAAAAAGRLCLVLSCVGLLTLAPRVLRRHGVLVLLFA
 GLVWVWFVSGLGALPPALRPLL SCLVGGAGCLLALGLDHFFHVRGASPPPRSASTADEKVPVIRPPRRSS
 CVSLGESAAAGYSGKMFRRPSPCISREQMILWDWDLKQWCKPHYQNSGGNGVDLSVLNEARNMVSDL
 LIDPSLPPQVISSLRSISSLMGAFSGSCRPKINSFTFPFGFYPCSEVEDPVKEGDRKLHKGLSSKPSFT
 AQLRRSSGASGLLTSEHHSRWDRSGGKRPYQELSVSSHGCHLNGPFSSNLMTIPKQRSSSVSLTHHAGLR
 RAGALPSPSLLNSSSHVPVSAGCLTNRSPVGFLDTSDFLTSPVTLHRSLGSVSSAADFHQYLRNSDSSL
 CSSCGHQILKYVSTCEPDGTDHNEKSPEEDSTVFSKERLNIVETQEEETVKEDCRELFLEGGDHLMEEA
 QQPNIQEVLLDPMLEVYDSLIEKMSNWNFI FELVEKMGEKSGRILSQVMYTLFQDTGLLETFKIPTQ
 EFMNYFRALENGYRDIYPYHNRVHATDVLHAWVYLTTRPIPLGLQLHNNHETETKADSDARLSSGQIAYLS
 SKSCCIPDKSYGCLSSNIPALELMALYVAAAMHDYDHPGRTNFLVATNAPQAVLYNDRSVLENHHAASA
 WNLVLSRPEYNFLLNLDHMEFKRFRFLVIEAILATDLKKHFDLAEFNAKANDVNSNGIEWSENDRLLV
 CQVCIKLADINGPAKDRDLHLRWTEGIVNEFYEQGDEEATLGLPISPFMDRSPQLAKLQESFITHIVGP
 LCNSYDAAGLLPGQWIEAEEGDDTESDDDDDDDDDDDDDEELDSDEETEDNLPKQRRKRRRRIFC
 QLMHHLTENHKIWKEIEEEEKCKAEGNKLQVDNASLPQADEIQVIEEAEDEEEQMF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

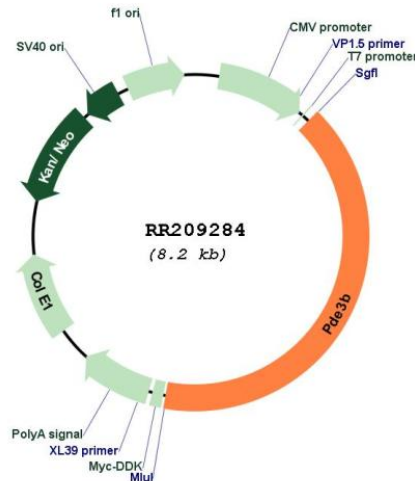
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017229

ORF Size: 3324 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_017229.1, NP_058925.1</u>
RefSeq Size:	4381 bp
RefSeq ORF:	3327 bp
Locus ID:	29516
UniProt ID:	<u>Q63085</u>
Cytogenetics:	1q34
MW:	123.1 kDa
Gene Summary:	catalyzes the hydrolysis of cAMP and cGMP; regulates insulin secretory processes [RGD, Feb 2006]