

## Product datasheet for MR219273

### Pde3b (NM\_011055) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pde3b (NM_011055) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde3b
Synonyms:	9830102A01Rik; AI847709
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219273 representing NM_011055 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAGGAAAGACGAGCGCGAGCGGGACGCGCCAGCCATGAGGTCCCCGCCGCCGCCAGCCTCGGCCG  
CCTCGCCCCCGAGAGCCTGCGCAACGGCTACGTGAAGAGCTGCGTGAGCCCGCTGCGGCAGGACCTCC  
GCGCAGCTTCTTCTCCACCTCTGCCGCTTCTGCAACGTGGAGCCGCGCGGCCCTCGCTCCGCGCCGG  
GCACGCCTCTCGCTCGGCGTCTGGCCGCTTTGTCTGGCCGCGCTGCTGGGCGCGAGGCCGAGCGCT  
GGGCGGCCGCGCAGCCGGGCTCCGGACGCTGCTGAGCGCCTGCTCGCTCAGCCTCAGCCGCTCTTCAG  
CATCGCCTGTGCCTTCTTCTTCCACCTGTTTCTGACGCGCGCGCAGCGCGGCCCGGGCCGCGCGCC  
GGCTCCTGGTGGCTGCTGGCGCTGCCCGCTGCTGCTACCTGGGCGACTTCGCGGCGTGGCAGTGGTGGT  
CGTGGCTGCGTGGGGAGCCGGCGCGCGGGCCGGCTCTGCCTGGTGTGAGCTGCGTGGGGCTGCTGAC  
GCTCGCGCCCCGCGTGGAGCTGCGGCACGGCGTCTGGTGTGCTCTTCGCCGGCCTGGTGTGGTGGGTG  
TCCTTCTCGGCCCTCGGGGCTCTGCCGCCCGCGCTCAGGCCTCTGCTGTCGTGCCTGGTGGGGGCGCG  
GATGCCTGCTAGCCCTGGGCTTGGACCACTTCTTTCACGTCCGGGGAGCCTCCCCCGCCGCGCTCGGC  
AGCGCAGCCGGTTACTATGGCAGTGGCAAGATGTTGAGGAGCCGTCGTTGCCTTGATTTCCCGAGAAC  
AGATGATCCTCTGGGACTGGGACTTGAAGCAGTGGTGTAAACCTCATTACCAGAATTCTGGAGGTGGAAA  
TGGAGTTGATCTTTCAGTGCTAAATGAAGCTCGCAATATGGTGTGACACCTGCTGATTGACCAAGCCTT  
CCCCACAAGTCAATTTCTCTGCGGAGTATCAGTAGCTTGTGGTGGTCTTCTCAGGTTCTGTAGGC  
CAAAGATTAATTTCTTTACCAATTTCTGGATTTTATCCCTGCTCTGAAGTAGAAGATCCAGTTGAGAA  
AGGAGATCGAAAACCTTACAAGGATTGAGTGGCAGAACCAGTTTCCAACTCCACAGCTGAGGAGGAGC  
TCTGGAGCCTCATCGTTGCTGACTAATGAGCACTGTTCAAGGTGGGATCGCAGCAGTGGTAAAGAGTCTT  
ACCAAGAACTCAGTGTTCAGTCAAGTATGGATGCCACCTAAATGGGCTTTTGTTCAAATCTTTTACAAT  
TCAAAGCAGAGGTCATGCTGTGTCCTGACTGACGACCATGCAGGCTGAGAAGAGCTGGTCTTTGCC



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AGCCACAGTCTTCTGAATTCTTCAAGCCATGTACCAGTGTCTGCTGGCTCTCTAACTAATCGATACCCCA  
 TAGGATTTCTGATACCACTGATTTTCTTACTAAGCCAAATATTTTACATAGATCACTGGGCAGTGT  
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 GCTGCTGGCTTGTGCCGGTCACTGGATAGAACAAGAGGGTGTGATACAGAAAGTGTATGATGATG  
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 TAAACCACAAAGAAGAAAGGCAGGCGGAATATTTTGGCAACTAATGCACCACCTCACTGAAAACCCAC  
 AAGATATGGAAGGAAATCATAGAAGAAGAAGAAAAATGTAAGCTGAGGGGAACAACTGCAGGTGG  
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 GTTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219273 representing NM\_011055  
 Red=Cloning site Green=Tags(s)

MRKDERERDAPAMRSPPPPASAASPPESLRNGYVKSCVSPLRQDPPRSFFFHLCRFCNVEPPAASLRAG  
 ARLSLGVLAAFVLAALLGARPERWAAAAAGLRTL SACSLSPLFSIACAFFFLT CFLTRAQRGPGRGA  
 GSWLLALPACCYL GDFAAWQWSWLRGEPAAAGRLCLVL SCVGLLTLAPRVRLRHGVLVLLFAGLVWV  
 SFSGLGALPPALRPLL SCLVGGAGLLALGLDHFHVRGASPPPRSASTAEKVPVIRRRRSSCVSLGE  
 SAAGYYSKMFRRPSLPCISREQMILWDWDLKQWCKPHYQNSGGNGVDLSVLNEARNMVSDDLIDPSL  
 PPQVISSLRSISSLMGAFSGSCRPKINSFPTFPGFYPCSEVEDPVEKGDRKLHKGLSGRTSFPQLRRS  
 SGASSLLTNEHCSRWRSSGKRSYQELSVSSHGCHLNGPSSNLFITPKQRSSSVSLTHHAGLRAGALP  
 SHSLLNSSSHVPSVAGSLTNRSPIGFPDITDFLTKPNIILHRSLGSVSSAADFHQYLRNSDNLCSSCGH  
 QILKYVSTCEPDGTDHPSEKSGEEDSSVFSKEPLNIVETQEEETMKKACREL FLEGDSHLMEEAQQPNID  
 QEVSLDPMLVEDYDSLIEKMNNWNFQIFELVEKMGEKSGRILSQVMYTLFQDTGLLETFKIPTQEFMNYF  
 RALENGYRDIPIYHNRVHATDVLHAVWYLTTRPIPLPQIHNHETETKADSDGRLGSGQIAYISSKCCI  
 PDMSYGCSSNIPALMALYVAAAMHDYDHPGRTNAFLVATNAPQAVLYNDRSVLENHHAASAWNLYLS  
 RPEYNFLNLDHMEFKRFRFLVIEAILATDLKKHFDLAEFNAKANDVNSNGIEWSENDRLLVCQVICIK  
 LADINGPAKDRDLHLRWTEGIVNEFYEQDDEEATLGLPI SPFMDRSPQLAKLQESFITHIVGPLNSYD  
 AAGLLPGQWIETEEGDDTESDDDDDDGGGEELDSDEETEDNLNPKPQRRKGRRRIFCQLMHLTENH  
 KIWKEIIEEEEEKCKAEGNKLQVDNASLPQADEIQVIEEAEDEEEEMQFE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9002\\_c06.zip](https://cdn.origene.com/chromatograms/mm9002_c06.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_011055  
 ORF Size: 3297 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\\_011055.2](#), [NP\\_035185.2](#)  
 RefSeq Size: 5314 bp  
 RefSeq ORF: 3300 bp  
 Locus ID: 18576

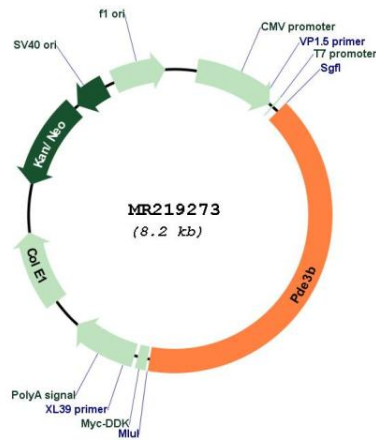
UniProt ID: [Q61409](#)

Cytogenetics: 7 59.46 cM

MW: 122.5 kDa

**Gene Summary:** Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. May play a role in fat metabolism. Regulates cAMP binding of RAPGEF3. Through simultaneous binding to RAPGEF3 and PIK3R6 assembles a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 and which is involved in angiogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219273