

Product datasheet for **RR207923**

Pde10a (NM_022236) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde10a (NM_022236) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde10a
Synonyms:	Pde10a3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR207923 representing NM_022236
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATGGACCCTCTAACAATGCGAGTTGCTTCCGAAGGCTGACCGAGTGTTTCCTCAGCCCCAGTT
 TGACGGATGAAAAGGTGAAGGCCTATCTTCCCTCCATCCCAGGTATTAGACGAGTTTGTTCGAAAG
 TGTTAGTGCAGGACTGTGGAGAAGTGGCTGAAGAGGAAAAACAACAAAGCAGAAGATGAACCATCTCCT
 AAGGAAGTCAGCAGGTACCAGGACACGAACATGCAAGGAGTCGTGTACGAGCTGAACAGCTACATAGAGC
 AGCGCCTGGACACCGCGGGGACAACCACTGCTCCTGTACGAGCTAAGCAGTATCATCAGGATAGCCAC
 AAAAGCCGACGGATTTGCACTGTACTTCTTGGAGAGTGAATAATAGTCTGTGTCTTACACCAACCC
 GGAATGAAGGAAGGTCAACCCCTCTCATCCCGCAGGGCCATCACCCAGGGCACCACCATCTCTGCCT
 ATGTGGCCAAGTCTAGGAAGACCCTGCTGGTAGAGGACATCCTTGGGGATGAGCGATTTCCAGAGGCAC
 TGGTCTGGAGTCAGGAACCCGAATCCAGTCTGTCTTTGCTTGCCTATTGCTACTGCCATTGGAGACTTG
 ATTGGCATCCTTGAAGTGTACAGGCACTGGGGCAAAGAGGCCTTCTGCCTCAGCCATCAGGAGGTTGCAA
 CCGCAATCTCGCTTGGCTTCCGTAGCAATACACCAGGTGCAGGTGTGCAGAGGTTCTCGCAAGCAGAC
 CGAACTGAATGACTTCTGCTCGATGTATCAAAGACATACTTTGATAACATAGTCGCCATAGACTCTCTA
 CTTGAACACATCATGATATATGCAAAAAATCTAGTGAACGCCGACCGCTGCGCGCTTCCAGGTGGACC
 ACAAGAACAAGGAGCTGTACTCGGACCTGTTTGACATTGGGGAGGAGAAGGAGGGGAAGCCCGTCTTCAA
 GAAGACCAAGGAGATCAGATTTCCATTGAGAAAGGGATTGCTGGTCAAGTGGCAAGAACGGGAGAAGTC
 CTGAACATTCCTGATGCCTACGCAGACCCGCGCTTAAACAGGGAGGTGGACCTGTACACAGGCTATACCA
 CGCGGAACATTCGTGTATGCCATAGTGAGCCGCGCAGCGTGATCGGTGTGGTGCAAAATGGTTAAACA
 GATCAGCGGCAGCGCTTCTCCAAGACGGATGAGAACAACCTTCAAGATGTTTGCTGTCTTCTGCGCTCTG
 GCCCTGCACTGCGCTAACATGTACCACAGGATCCGCCACTCAGAGTGCATCTACAGGTTACCATGGAGA
 AGCTGTCTTACCACAGCATCTGCACCTCTGAGGAATGGCAAGGCCTCATGCACTTCAACTTGCCAGCAGC
 CATCTGCCGGACATCGAGCTATTCCACTTTGACATTGGTCTTTTCGAGAACATGTGGCCTGGGATCTTT
 GTCTACATGATCCATCGGTCTTGTGGGACATCCTGTTTTGAACTTGAAAAATGTGCCGTTTTATCATGT
 CTGTGAAGAAGAACTATAGGCGGGTTCCTTACCACAACGGAAGCATGCAGTCACGGTGGCGCACTGCAT
 GTACGCCATACTTCAAAACAACAATGGCCTCTTACAGACCTTGAGCGCAAAGGCCTGCTAATTGCCTGT
 CTGTGCCATGACCTGGACCACAGGGCTTCAGTAACAGCTACCTGCAGAAATTCGACCACCCCTGGCTG
 CGTTGTAATCCACTCCACCATGGAGCAACACCACTTCTCCAGACGGTGTCCATCCTCCAGCTGGAAGG
 ACACAACATCTTCTCACCCCTGAGCTCCAGCGAGTACGAGCAGGTGCTGGAGATCATCCGAAAGCCATC
 ATCGCCACTGACCTCGCACTGTACTTTGGGAACAGGAAGCAGTTGGAGGAGATGTACCAGACAGGGTCCG
 TGAACCTCCACAACCAAGTCCCATCGAGACCGCGTCATCGGCTTGATGACTGCCTGCGATCTTTGCTC
 TGTGACGAAACTATGGCCAGTTACAAAATTGACAGCAAATGATATATATGCAGAGTTCTGGGCTGAGGGG
 GATGAGATGAAGAAGTTGGGGATACAGCCCATCCCTATGATGGACAGAGACAAGCGAGATGAAGTCCCTC
 AAGGACAGCTTGGATTCTACAATGCTGTGGCCATCCCCTGCTATACCACCTGACGCAGATCCTCCCACC
 CACAGAGCCTCTGCTGAAGGCCTGCAGGGATAACCTCAATCAGTGGGAGAAGGTAATTCGAGGGGAAGAG
 ACAGCAATGTGGATTTACGGCCAGCAACTAGCAAAAGCACATCTGAGAAGCCGACCAGGAAGTTCGATG
 AC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207923 representing NM_022236
Red=Cloning site Green=Tags(s)

MEDGPSNNASCFRRLTECFLSPSLTDEKVKAYLSLHPQVLDEFVSESVSAETVEKWLKRKNKAEDEPSP
KEVSRYQDTNMQGVVYELNSYIEQRLDTGGDNHLLLYELSSIIIRIATKADGFALYFLGECNNSLCVFTTP
GMKEGQPRILIPAGPITQGTIISAYVAKSRKTLLEDILGDERFPRGTGLESGTRIQSVLCLPIVTAIGDL
IGILELYRHWGKEAFCLSHQEVATANLAWASVAIHQVQVCRGLAKQTELNDFLLDVSKTYFDNIVAIDSL
LEHIMIYAKNLVNADRCALFQVDHKNKELYSDLFDIGEEKEGKPVFKKTKAIRFSIEKGIAGQVARTGEV
LNIPDAYADPRFNREVDLYTGYTTRNILCMPIVSRGSGVIGVVQMVNKISGSAFSKTDENNFKMFAVFCAL
ALHCANMYHRIRHSECIYRVMEKLSYHSICTSEEWQGLMHFNLPARICRDIELFHFDIGPFENMWPGIF
VYMIHRSCGTSCFELEKLCRFIMSVKKNYRRVPYHNWKHAVTVAHCMYAILQNNGLFTDLERKGLLIAC
LCHDLDRGFNSNSYLQKFDHPLAALYSTSTMEQHHSQTVSILQLEGHNIFSTLSSEYEQVLEIIRKAI
IATDLALYFGRKQLEEMYQTGSLNLHNQSHRDRVIGLMMTACDLCSVTKLWPVTKLTANDIYAEFWAEG
DEMKKLGIQPIPMMDRDKRDEVPQGQLGFYNAVAIPCYTTLTQILPPTPELLKACRDNLNQWEKVIIRGEE
TAMWISGPATSKSTSEKPTRKVDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_022236

ORF Size: 2382 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_022236.1](#), [NP_071572.1](#)

RefSeq Size: 3427 bp

RefSeq ORF: 2385 bp

Locus ID: 63885

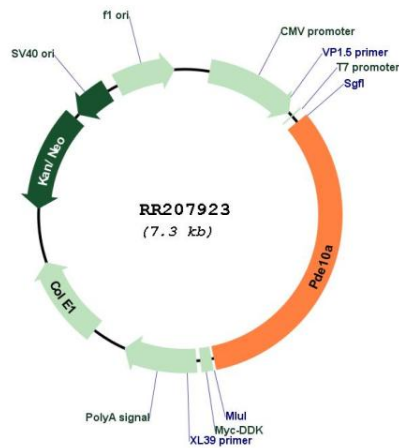
UniProt ID: [Q9QYJ6](#)

Cytogenetics: 1q12

MW: 90.2 kDa

Gene Summary: has phosphodiesterase activity for cAMP and has cAMP inhibited activity for cGMP; activity is detected in brain striatum and testis [RGD, Feb 2006]

Product images:



Circular map for RR207923