

Product datasheet for **MR226938**

Pde8a (NM_008803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde8a (NM_008803) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde8a
Synonyms:	AI551852; Pde8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226938 representing NM_008803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGCGCCCGAGCATCCACACTCCGAAAACCGAACGTTTAGCCACAGCGACGGCGAGGACGAGG
 ACGTGGACGTGGACGTCCCGGGCCCGGCCGAGATCTATTACAGCGATGGTTCGACCGCGCCCGGGCTCGT
 GGAGCCTCAGCCTCGGGATAACGGCGCCTCGAAGGTATCAGTAGCTGATGTGCAATTTGGCCCGATGAGA
 TTTTCATCAAGACCAACTCAGGTCTGTTAGTGTTTACCAAAGAAGATAGCCAGTGAACGGATTCCACA
 GGGCATGTGAGAAAGCTGGGTTTAAAGTGCACAGTACCAAGGAGGTGCAGACTGTCCTTACCTGTTTCCA
 GGACAACTCCATGACATCATCATAGACCACAGATATCCCCGACAGATGGATGCAGAGACATTGTGC
 AGGTCTATCAGATCATCAAAATTCAGAAAACACAGTTATTGTTGGCGTAGTACGCAGGGTGGACAAAG
 AAGAATCATCTTTAATGCCCTTCTTGTGCTGGCTTACACGGAGGTTTATAGAGAACCCCAACGTCAT
 GGCTGTTATAATGAAGTCTCCAGTTGGCATGTGGAGAGGTGCGATCACAGCTGAAACTCAGGGCTTGT
 AACTCAGTATTCAGTGCATTAGAGAAAAGTCAAGAAGCAATTGAAATTACAAGTGAAGACCACATTATAC
 AGTATGCAAACCTGCATTTGAATCAACAATGGGTTATCAGTCAGGAGAATTAATAGGGAAGGAGTTAGC
 ACAAGTGCCATAAAATGAAAAGAAAGGTGATTTGCTCGATGCCATAAATTCGTGTGTACAGTAGACAAG
 GAATGGCAAGGAGTTTACCATACCCAAAAGAAAATGGAGATAACATACAGCAAAATGTGAAGATAATAC
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 GGTTGAGACCACAAGTGTGTTTCCAGTGCAGTCAAACAGATAACCCAGGCAGGCAACATAAAGGAC
 AGGAGGAAACATTCGATGGACGCCAAAGCGGTTTCCAGCAAGTGAAGTGTGCAATCAATATTATCAA
 ATTCCCTTTGGCCGGATACATTTCTATGATGATTGAGGCACCCATCACCAGGTAATCAATATTATCAA
 TGCTGCCAGGAAAACAGTCTGTGCTGTGACGGAAGCCTTGAACCGAGTGTGGATATTCTGAGAACC
 ACTGAGCTGTACTCGCCACAGTTTAAATGCTCAGGATGATCCCATGCCACAGACCTCGTTGGGGCTTAA
 TGTCTGATGGCTTACGAAGGTTTTAGGAAATGAGTATATTCTTGCAACAAAAAACCCTCCACCCTTTC
 AAACAATTTGGCCACCCCGTCTCCCTTATGATGTCCACCACGGATTGCCCTGGCCATAGAAAATGAA
 GAACAGTGGGACTTTGACATTTTGGAGTGAAGTAGCAACCCAAAATAGGCCTTTGATTTATCTAGGTC
 TGAACAGTGGGCTTTGCGGTTTTGGAATGTGTGAGTCTTACAGTGTCTGAGACAACGCTGAGATCTGGTT
 TCAGATGATCGAATCCAACCTACCCTCTTCAACCCCTACCACAATTCACACACGCTGCGGATGTGCTT
 CACGCCACGGCGTATTTCTTTCCAGAGACAAAATAAAGGAAACTTTAGATCGCATTGACGAGGTTGCTG
 CCCTCATTGCGGCCACCGTCCATGACGTGGATCACCTGGGAGAACCAACTCCTTCTGTGCAACCGCGG
 AAACCAGCTGGCTGTGCTCTACAACGACACCGCTGTGCTGGAGAGCCACCACGTGGCACTGGCCTCCAG
 CTGACGCTTGAATGACCAGTGAATATCTTTAAGCAATGGAGAGGAATGACTACCGGACACTACGCC
 AGAGCATTATTGACATGGTCTAGCCACAGAAATGACGAAGCACTTTGAACATGTCAACAAATTTATCAA
 CAGCATCAACAAGCCTTTGACAGCCAGGAGAGTGAAGAACCTGACAGAAGTCTGGAAGACATAAAAGCT
 ATGCTCAAGACGCCAGAGAGCCGGGCTCTATCAAAAAGATGATGATTAAGTGTGCCGACGTGTCCAACC
 CCTGCCGGCCGCTGGAGCACTGCATCGAGTGGGCTGCGCGCATCTCAGAGGAGTATTTCTCTCAGACTGA
 TGAAGAGAAACAGCTGGACTTGCCTGTGGTGTGCCCCGTTTTGACAGAAACACCTGCAGCATTTCCAAG
 TCTCAGATCTCCTTCATCGATTACTTCATCACAGACATGTTTGTGCTGGGATGCCTTCTGTTGACCTGC
 CTAACCTTATGCAGCACCTAGATGACAACCTCAGGTACTGGAAGGACTGGATGAGAAGAAGCTTCGAAG
 CCTCCGCCCCCTCCAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226938 representing NM_008803
Red=Cloning site Green=Tags(s)

MGCAPSIHTSENRTFSHSDGEDEDVDVDPGPAPRSIQRWSTAPGLVEPQPRDNGASKVSVADVQFGPMR
FHQDQLQVLLVFTKEDSQCNCFHRACEKAGFKCTVTKVQTVLTCFQDKLHDIIIDHRYPRQMDAETLC
RSIRSSKFSENTVIVGVRRVDKEESSLMPFLAAGFTRRFIENPNVMACYNELQLACGEVRSQKLRAC
NSVFTALEKSQEAIEITSEDHIIQYANPAFESTMGYQSGELIGKELAQVPINEKGDLLDAINSCVTVDK
EWQGVYHTQKNGDNIQQNKIIPVIGQGKIRHYVSIIRVCNGNKNVETTTTECVQTDSDNQAGKHKD
RRKHSMDAKAVSSRTSDVSSQRRHSSLARIHSMIEAPIITKVINIINAAQENSPVPVTEALNRVLDILRT
TELYSPQFNAQDDPHATDLVGGLMSDGLRRFSGNEYILATKNLPLSNNLATPVSLHDVPPRIALAIENE
EQWDFDIFELEVATQNRPLIYLGLKTFARFGMCEFLQCSETTLRSWFQMIENYHSSNPYHNSTHAADV
HATAYFLSRDKIKETLDRIDEVAALIAATVHDVDHPGRTNSFLCNAGQLAVLYNDTAVLESHHVALAFQ
LTLENDQCNIQKMERNDYRTLRSIIDMVLATEMTKHFHVNFINSINKPLTAQESEEPDRSLEDIKA
MLKTPESRALIKRMMIKADVSNPCRPLEHCIEWAARISEEYFSQTDEEKQLDLPVVMVPVDFDRNTCSIPK
SQISFIDYFITDMFDAWDAFVDLPNMQHLDDNFYWKGLDEKLRSLRPPPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_e01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008803

ORF Size: 2469 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_008803.3](#)

RefSeq Size: 2683 bp

RefSeq ORF: 2472 bp

Locus ID: 18584

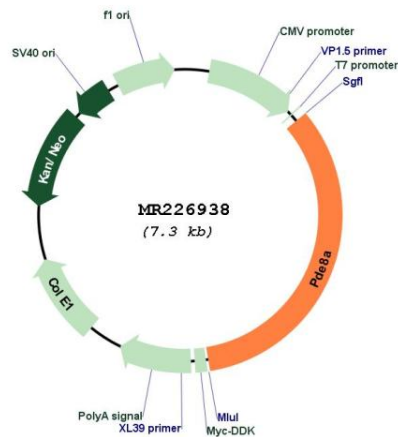
UniProt ID: [O88502](#)

Cytogenetics: 7 D3

MW: 93.6 kDa

Gene Summary: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development. Binding to RAF1 reduces RAF1 'Ser-259' inhibitory-phosphorylation and stimulates RAF1-dependent EGF-activated ERK-signaling. Protects against cell death induced by hydrogen peroxide and staurosporine. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226938