

Product datasheet for **MG226938**

Pde8a (NM_008803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde8a (NM_008803) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde8a
Synonyms:	AI551852; Pde8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226938 representing NM_008803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGCGCCCGAGCATCCACACTCCGAAAACCGAACGTTTAGCCACAGCGACGGCGAGGACGAGG
 ACGTGGACGTGGACGTCCCGGGCCCGCCGAGATCTATTCAGCGATGGTTCGACCGCGCCCGGGCTCGT
 GGAGCCTCAGCCTCGGGATAACGGCGCCTCGAAGGTATCAGTAGCTGATGTGCAATTTGGCCCGATGAGA
 TTTTCATCAAGACCAACTTCAGGTCTGTTAGTGTTCACAAAGAAGATAGCCAGTGAACGGATTCCACA
 GGGCATGTGAGAAAGCTGGGTTTAAAGTGCACAGTACCAAGGAGGTGCAGACTGTCCTTACCTGTTTCCA
 GGACAACTCCATGACATCATCATAGACCACAGATATCCCCGACAGATGGATGCAGAGACATTGTGC
 AGGTCTATCAGATCATCAAAATTCAGAAAACACAGTTATTGTTGGCGTAGTACGCAGGGTGGACAAAG
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 AGTATGCAAACCTGCATTTGAATCAACAATGGGTTATCAGTCAGGAGAATTAATAGGGAAGGAGTTAGC
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 CTGTCAATGGGCAGGGAGGAAAATCAGACACTATGTGTCCATTATCAGAGTGTGCAATGGCAACAATAA
 GGTTGAGACCACAACAGTGTGTTTCCAGTGCAGTCAAACAGATAACCCAGGCAGGCAACATAAAGGAC
 AGGAGGAAACATTCGATGGACGCCAAAGCGGTTTCCAGCAACAAAGTACGTTTCCAGTCAGAGAAGAC
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 TGAACAGTGTGCGGTTTTGGAATGTGTGAGTCTTACAGTGTCTGAGACAACGCTGAGATCTGGTT
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 TCTCAGATCTCCTTCATCGATTACTTCATCACAGACATGTTTGTGCTGGGATGCCTTCTGTTGACCTGC
 CTAACCTTATGCAGCACCTAGATGACAACCTCAGGTAAGTGGAAAGGACTGGATGAGAAGAAGCTTCAAG
 CCTCCGCCCCCTCCAGAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226938 representing NM_008803
 Red=Cloning site Green=Tags(s)

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MGCAPSIHTSENRTFSHSDGEDEDVDVDVPGPAPRSIQRWSTAPGLVEPQPRDNGASKVSVADVQFGPMR
FHQDQLQVLLVFTKEDSQCNCFHRACEKAGFKCTVTKEVQTVLTCFQDKLHDIIIDHRYPRQMDAETLC
RSIRSSKFSENTVIVGVRRVDKEESSLMPFLAAGFTRRFIENPNVMACYNELLQLACGEVRSQKLRAC
NSVFTALEKSQEAIEITSEDHIIQYANPAFESTMGYQSGELIGKELAQVPINEKGDLLDAINSCVTVDK
EWQGVYHTQKNGDNIQQNVKIIIPVIGQGKIRHYVSIIRVCNGNKNVETTTTECVQTDSDNQAGKHKD
RRKHSMDAKAVSSRTSDVSSQRRHSSLARIHSMIEAPIITKVINIINAAQENSPVPVTEALNRVLDILRT
TELYSPQFNAQDDPHATDLVGGLMSDGLRRFSGNEYILATKNLPLSNNLATPVSLHDVPPRIALAIENE
EQWDFDIFELEVATQNRPLIYLGLKTFARFGMCEFLQCSETTLRSWFQMIENYHSSNPYHNSTHAADV
HATAYFLSRDKIKETLDRIDEVAALIAATVHDVDHPGRTNSFLCNAGQLAVLYNDTAVLESHHVALAFQ
LTLENDQCNIQKMERNDYRTLRSIIDMVLATEMTKHFHVNFINSINKPLTAQEEEPDRSLEDIKA
MLKTPESRALIKRMMIKADVSNPCRPLEHCIEWAARISEEYFSQTDEEKQLDLPVVMVPVDFDRNTCSIPK
SQISFIDYFITDMFDAWDAFVDLPNMQHLDDNFYWKGLDEKLRSLRPPPE
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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

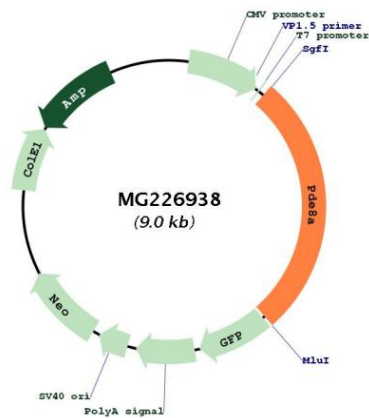
Locus ID: 18584

UniProt ID: [O88502](#)

Cytogenetics: 7 D3

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 MG226938