

Product datasheet for **MC221860**

Pde8a (NM_008803) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC221860 representing NM_008803
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCTGCGCCCGAGCATCCACACTCCGAAAACCGAACGTTTAGCCACAGCGACGGCGAGGACGAGG
 ACGTGGACGTGGACGTCCCGGGCCCGCCGAGATCTATTACAGCGATGGTTCGACCGCGCCCGGGCTCGT
 GGAGCCTCAGCCTCGGGATAACGGCGCCTCGAAGGTATCAGTAGCTGATGTGCAATTTGGCCCGATGAGA
 TTTTCATCAAGACCAACTCAGGTCTGTTAGTGTTTACCAAAGAAGATAGCCAGTGAACGGATTCCACA
 GGGCATGTGAGAAAGCTGGGTTTAAAGTGCACAGTACCAAGGAGGTGCAGACTGCCTTACCTGTTTCCA
 GGACAACTCCATGACATCATCATAGACCACAGATATCCCCGACAGATGGATGCAGAGACATTGTGC
 AGGTCTATCAGATCATCAAAATTCAGAAAACACAGTTATTGTTGGCGTAGTACGCAGGGTGGACAAAG
 AAGAATCATCTTAAATGCCCTTCTTGTGCTGGCTTACACGGAGGTTTATAGAGAACCCCAACGTCAT
 GGCTGTTATAATGAAGTCTCCAGTTGGCATGTGGAGAGGTGCGATCACAGCTGAAACTCAGGGCTTGT
 AACTCAGTATTCAGTGCATTAGAGAAAAGTCAAGAAGCAATTGAAATTACAAGTGAAGACCACATTATAC
 AGTATGCAAACCTGCATTTGAATCAACAATGGGTTATCAGTCAGGAGAATTAATAGGGAAGGAGTTAGC
 ACAAGTGCCATAAAATGAAAAGAAAGGTGATTTGCTCGATGCCATAAATTCGTGTGTACAGTAGACAAG
 GAATGGCAAGGAGTTTACCATACCCAAAAGAAAATGGAGATAACATACAGCAAAATGTGAAGATAATAC
 CTGTCAATGGGCAGGGAGGAAAATCAGACACTATGTGTCCATTATCAGAGTGTGCAATGGCAACAATAA
 GGTTGAGACCACAAGTGTGTTTCCAGTGCAGTCAAACAGATAACCCAGGCAGGCAACATAAAGGAC
 AGGAGGAAACATTCGATGGACGCCAAAGCGGTTTCCAGCAAGTACGCTTCCAGTCAAGAAAGAC
 ATTCTCTTTGGCCGGATACATTTCTATGATGATTGAGGCACCCATCACCAGGTAATCAATATTATCAA
 TGCTGCCAGGAAAACAGTCTGTGCTGTGACGGAAGCCTTGAACCGAGTGTGGATATTCTGAGAACC
 ACTGAGCTGTACTCGCCACAGTTTAAATGCTCAGGATGATCCCCATGCCACAGACCTCGTTGGGGCTTAA
 TGTCTGATGGCTTACGAAGGTTTTAGGAAATGAGTATATTCTTGCAACAAAAAACCCTCCACCCTTTC
 AAACAATTTGGCCACCCCGTCTCCCTTATGATGTCCACCACGGATTGCCCTGGCCATAGAAAATGAA
 GAACAGTGGGACTTTGACATTTTGGAGTGAAGTAGCAACCCAAAATAGGCCTTTGATTTATCTAGGTC
 TGAACAGCTTTGCGCGTTTTGGAATGTGTGAGTCTTACAGTGTCTGAGACAACGCTGAGATCTGGTT
 TCAGATGATCGAATCCAACCTACCCTCTTCAACCCCTACCACAATTCACACACGCTGCGGATGTGCTT
 CAGCCACGGCGTATTTCTTTCCAGAGACAAAATAAAGGAAACTTTAGATCGCATTGACGAGGTTGCTG
 CCCTCATTGCGGCCACCGTCCATGACGTGGATCACCCCTGGGAGAACCAACTCCTTCTGTGCAACGCGGG
 AAACCAGCTGGCTGTGCTCTACAACGACACCGCTGTGCTGGAGAGCCACCACGTGGCACTGGCCTTCCAG
 CTGACGCTTGAATGACCAGTGAATATCTTTAAGCAAATGGAGAGGAATGACTACCGGACACTACGCC
 AGAGCATTATTGACATGGTCTAGCCACAGAAATGACGAAGCACTTTGAACATGTCAACAAATTTATCAA
 CAGCATCAACAAGCCTTTGACAGCCAGGAGAGTGAGGAACCTGACAGAAGTCTGGAAGACATAAAAGCT
 ATGCTCAAGACGCCAGAGAGCCGGGCTCTATCAAAAAGATGATGATTAAGTGTGCCGACGTGTCCAACC
 CCTGCCGGCCGCTGGAGCACTGCATCGAGTGGGCTGCGCGCATCTCAGAGGAGTATTTCTCTCAGACTGA
 TGAAGAGAAACAGCTGGACTTGCCTGTGGTGTGCCCCGTTTTGACAGAAACACCTGCAGCATTTCCAAG
 TCTCAGATCTCCTTCATCGATTACTTCATCACAGACATGTTTGTGCTGGGATGCCTTCGTTGACCTGC
 CTAACCTTATGCAGCACCTAGATGACAACCTCAGGTAAGTGGAAAGGACTGGATGAGAAGAAGCTTCAAG
 CCTCCGCCCTCCAGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008803
Insert Size: 2472 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_008803.2 , NP_032829.1
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]