

Product datasheet for **MR210979**

Pde6a (NM_146086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde6a (NM_146086) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde6a
Synonyms:	nmf282; Pdea
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210979 representing NM_146086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGAGGTGACAGCAGAGGAGGTAGAAAAGTTCCTGGATTCAAATATTGGCTTTGCCAAACAGTACT
 ATAACTTTCACCTACCGGGGAAGGTCATCTCAGACCTCCTCGGGCCAAGGAGGCAGCCGTGGACTTCAG
 CAACTACCACGATGTGAACAGCGTAGAGGAGAGTGAGATCATCTTTGACCTCCTGCGGGACGTTCCAGGAG
 AACTTACAGGCTGAGAAATGCACATTCAATGTCATGAAGAAGCTCTGCTTCTCCTGCGGGCTGACCGCA
 TGAGCCTGTTTATGTACAGGACCCGCAACGGGATCGCCGAGTTGGCCACTAGGCTCTTCAATGTCCACAA
 GGATGCCGTCCTAGAGGACTGCTTGGTGTGCCGACTCCGAGATTGCTTCCCTCTGGACATGGGTGTC
 GTGGGCCACGTCGCACACTCCAAAAGATTGCCAATGTCCCAACACAGAAGAGGATGAGCATTTCTGTG
 ACTTCGTGGACAATCTCACAGAATATCAGACCAAAAACATCCTGGCTTCCCCATCATGAATGGGAAGGA
 TGTGGTAGCCATAATCATGGCTGTGAATAAAATAGATGAACCCACTTCACCAAGAGAGATGAAGAGATT
 CTCTCAAGTACCTCAACTTTGTGAACCTGATCATGAAGTATTCCACCTGAGCTACCTGCACAACCTGTG
 AGACTCGTCGCGCCAGATATTGCTGTGGTCTGGGAGCAAGTCTTTGAGGAGCTCACGGATATAGAGAG
 GCAGTTCCACAAGGCCCTGTACACGGTCCGGGCTTTCCTCAACTGTGACAGATACTCCGTAGGACTCTTA
 GACATGACCAAACAGAAGGAATTTTTGATGTGTGGCCAGTTCTGATGGGCGAGGCTCCAGCTTACTCTG
 GTCCCAGGACTCCAGACGGAAGGGAAATTAACTTCTACAAGGTCAATTGACTACATCTGCACGGCAAAGA
 AGACATCAAAGTCATCCCGAACCCACCCGCTGACCACTGGGCTCTAGTGAGTGGTCTCCCCACTTACGTG
 GCTCAAATGGTCTGATCTGCAATATAATGAATGCGCCTGCAGAGGACTTTTTGAATCCAGAAGGAGAG
 CTCTGGATGAGTCTGGTGGATGATTAATAATGACTTCTCCATGCCCATCGTCAACAAGAAGGAAGAGAT
 CGTCGGCGTGGCCACATTTTACAACCGCAAAGATGGGAAGCCCTTCGACGATATGGACGAGACCCCTCATG
 GAGTCTTTGACTCAGTTTCTGGGATGGTCACTTAAACCCTGACACCTACGAGTCCATGAACAAGCTCG
 AGAACAGGAAGGATATCTCCAGGACATCGTGAATATCACGTGAAGTGTGATAACGAAGAAATCCAGAA
 GATCTTGAACAGGAGGAGTACGGCAAGAGCCGTGGGAATGCGAGGAGGAGGAGCTGGCTGAGATC
 CTGCAAGGAGAACTTCCAGACGCGGAGTCAACGAAATCAACAAGTTCACCTTACGCGACCTGCCACTCA
 CGGAGCTGGAGCTGGTGAAGTGCAGTCCAGATGTACTACGAGCTCAGAGTGGTGGACAAGTTCACAT
 CCCGCAAGAGGCCCTGGTGCCTTATGTATTGCTAAGCAAAGGCTACCGGAGAATCACTTACCACAAC
 TGGCGGCATGGCTTCAACGTGGGGCAGACCATGTTCTCCTTGCTGGTGACAGGAAAGCTGAAACGGTACT
 TCACTGATCTAGAGGCCCTGGCCATGGTCACTGCTGCCTTCTGTGATGACATCGACCACAGAGGCACGAA
 CAACCTTACCAGATGAAATCACAGAACCCCTGGCCAAGCTCCATGGGTCTCCATCTTGGAAAGGCAT
 CATTTGGAGTTTGGCAAAACACTCCTGAGAGATGAGAGCCTGAATATCTTCCAGAACCTGAATCGCCGGC
 AGCATGAGCACGCGATCCACATGATGGACATCGCGATCATTGCCACAGACCTTGCCTTGTATTTCAAGAA
 AAGGACCATGTTCCAGAAGATTGTGGATCAGTCAAAGACATATGAGAGTACCCAGGAGTGGACCCAGTAC
 ATGATGCTGGAGCAGACACGGAAGGAAATGTGATGGCCATGATGATGACCGCCTGTGATCTCTCAGCCA
 TCACCAAACCTGGGAGGTACAGAGCAAGTGGCTCTGCTGGTGGCTGCTGAATTCTGGGAGCAAGGTGA
 CCTGGAGCGCACAGTCTGCAGCAGAATCCCATCCCATGATGGACAGAAACAAGGCGGATGAGCTCCCC
 AAGCTTCAAGTCGGCTTCACTGACTTTGTGTGCACTTTTGTCTATAAGGAGTTCTCCCGATTTTCATGAGG
 AGATTACACCCATGCTGGATGGATCACTAACAACCGCAAGGAATGGAAGGCGCTGGCTGATGAGTACGA
 AGCCAAGATGAAGGCCCTGGAGGAGGAGAAGCAGAAGCAGCAGGCAGCCAAGCAAGCTGCTTCCGGGAAC
 CAGCCAGGAGGGAACCCCACTCCAGGGGTGCACCTGCATCTAAGTCTGTTGCATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210979 representing NM_146086
 Red=Cloning site Green=Tags(s)

MGEVTAEEVEKFLDSNIGFAKQYYNFHYRGKVISDLLGAKEAAVDFSNYHDVNSVEESEIIFDLLRDVQE
 NLQAEKCTFNVMKKLCFLLRADRMSLFMYRTRNGIAELATRLFNVHKDAVLEDCLVMPDSEIVFPLDMGV
 VGHVAHSSKIANVPNTEDEHFCDVDNLTEYQTKNILASPIMNGKDVVAIIMAVNKIDEPHFTKRDEEII
 LLKYLNFVNLIMKVFHLSYLHNCETRRGQILLWSGSKVFEELTDIERQFHKALYTVRAFLNCDRYSVGLL
 DMTKQKEFFDVWPVLMGEAPAYSGPRTPDGREINFYKVIDYILHGKEDIKVIPNPPADHWALVSGLPITYV
 AQNGLICNIMNAPAEFFFEFQKEPLDESGWMIKNVLSMPIVNKKEEIVGVATFYNRKDGKPFDDMETLM
 ESLTQFLGWSVLNPDTYESMNKLENRKDIFQDIVKYHVKCDNEEQKILKTRVYKPEWCEEEELAEI
 LQGELPDAESYEINKFHFSDLPLTELELVKCGIQMYELRVVDKFHIPQEALVRFMYSLSKGYRRITYHN
 WRHGFVNGQTMFSLLVTKLRYFTDLEALAMVTAAFCHDIDHRGTNNLYQMSQNPLAKLHGSSILERH
 HLEFGKTLRDESLNIFQNLNRRQHEHAHMMDIAIIATDLALYFKKRTMFQKIVDQSKTYESTQEWQY
 MMLEQTRKEIVMAMMTACDLSAITKPWEVQSKVALLVAAEFWEQGLERTVLQQNPIMPMDRNKADEL
 KLQVGFIDFVCTFVYKEFSRFHEEITPMLDGITNNRKEWKALADEYEAKMKALEEEKQKQQAQAAQASGN
 QPGGNPTPGGAPASKSCCIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9098_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

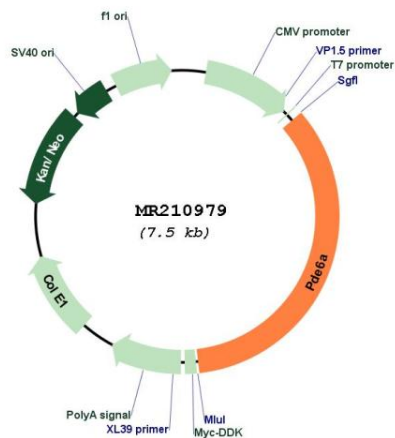
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_146086
ORF Size:	2580 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:	<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:	<u>NM_146086.3</u>
RefSeq Size:	4230 bp
RefSeq ORF:	2583 bp
Locus ID:	225600
Cytogenetics:	18 34.41 cM
MW:	99.5 kDa

Product images:



Circular map for MR210979