

Product datasheet for **MC222287**

Pde5a (NM_153422) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde5a (NM_153422) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde5a
Synonyms:	Cgbpde; Cn5n; Pde5; Pde5a1; PDE5a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222287 representing NM_153422
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACGAGCGGGCCCCAACTCCGTGCGGTGCGAGCAGCAGCGGGACCCGGACTGGGTGGAAGCGTGGC
 TGGATGATCACCGGACTTTACCTTCTCTACTTTATTAGAAAGGCCACCAGAGACATGGTCAACGCATG
 GTTTTCAGAGAGAGTTTCAACATCCCTGTGTGCAAGGAAGGCATCCGAGCCCATACCGAGTCTGCTCT
 TGCTCTCTGCAGCAAAGTCTCATGCAGATAATACCACCCTGGAGCACCAGCCAGAAAAATATCTGCCT
 CTGAATTTGACCGACCTTTAGACCCATTGTTGTCAAGGATTCGAGGGAACAGTGAGCTTTCTCTCTGA
 CTCAGGAAAAAGGAACAAATGCCACTAACCCCCCAAGATTTGATAGTGATGAAGGGGACCAGTGCTCA
 AGGCTCTTGGAGTAGTAAAAGATATTTCCAGTCATTTGGATGTCACAGCATTGTGCACAAAATTTTCT
 TGCATATCCATGGACTCATCTCTGCGGATCGCTATTCCCTGTTCTTGTCTGTGAGGACAGCTCTAAAGA
 CAAATTCCTCATCAGCCGCTCTTTGATGTTGCTGAAGGTTCAACATTGGAGGAAGCTTCAAATAACTGT
 ATCCGTTTAGAGTGGAACAAAGGCATTGTGGGACATGTGGCAGCTTTTGGCGAGCCCTTGAACATCAAAG
 ATGCCTATGAGGATCCCCGGTCAATGCAGAAGTTGACCAAATTACAGGCTACAAGACACAAAGTATCCT
 TTGTATGCCAATTAAGAACCACAGGGAAGAGGTTGTTGGTGTAGCTCAGGCCATCAACAAGAAATCAGGA
 AATGGTGGGACCTTCACTGAAAAAGATGAAAAGGACTTTGCGGCCTACCTGGCATTCTGTGGTATTGTTT
 TTCACAATGCTCAGCTCTATGAAACGTCATTGCTGGAGAACAAGAAATCAGGTGTTACTTGACCTTGC
 CAGCTTAATCTTTGAAGAGCAGCAGTCACTGGAAGTATTCTGAAGAAGATAGCGGCCACTATCATCTCC
 TTCATGCAGGTGCAGAAGTGCACCATCTTATTGTTGGAAGACTGTCTGACTCTTTCTCTCGTGTGT
 TTCACATGGAGTGTGAGGAAGTAGGAAAACCTCTGATCCTTTAACGAGGGAGCAAGATGCAAAACAAAT
 CAATACATGTATGCTCAGTATGTCAAAAACACGATGGAGCCACTTAATATCCCAGATGTACCAAGGAC
 AAAAGATTTCCCTGGACAATGAAAACATGGGACACGTGAACACGCCCTGCATTGGAAGTTTGCTTTGCA
 CCCCTATAAAAAATGGGAAGAAGAACAAAGTCATAGGCGTCTGCCAACTTGTTAATAAGATGGAGGAGAA
 TACTGGCAAGATTAAGCTTTCAACAAAATGATGAGCAGTTCCTGGAAGCCTTTGTCTCTGTGGC
 TTGGGGATCCAGAACACACAGATGTATGAAGCGGTGGAGAGGCCATGGCCAAGCAGATGGTGACATTAG
 AGGTCCTGTCTTACCATGCATCAGCGCGGAGGAAGAAACAAGAGAGCTCCAGGCTTTATCGGCTGCTGT
 GGTACCATCGGCCAAACCTTAAAAATTACCGACTTCAGCTTCAGTGACTTTGAGCTGTCTGATCTGGAA
 ACAGCGCTGTGTACAATTCGGATGTTCACTGACCTCAACCTTGTGCAGAACTTCCAGATGAAACATGAGG
 TTCTTTGCAGGTGGATTTAAGTGTGAAGAAGAATTATCGGAAGAACGTTGCCTACCACAATGGAGGCA
 TGCCTTTAAACACGGCACAGTGCATGTTTGTGCTCTGAAAGCCGCAAGATCCAGAACAAGTTGACGGAT
 CTGGAGACCTTTCGTTGCTCATTGCTGCTTAAAGCCATGACTTGGATCATCGTGGCGTGAACAACCTCAT
 ACATACAGCGGAGCGAGCACCCGCTGGCTCAGCTGTACTGCTCACTCCATCATGGAACACCATCATTTTGA
 CCAGTGCTTGATGATTCTAAACAGCCCAGGCAACCAGATTCTCAGTGGCCTCTCCATTGACGAATAAAG
 ACCACACTGAAAATAATCAAGCAAGCAATTTTAGCCACAGACCTAGCACTGTACATTAAGAGACGAGGAG
 AATTTTTTGAACCTATACGAAAAAATCAATTCAGTTTTGAAGATCCTCTTCAAAGGAGTTGTTTCTAGC
 AATGCTGATGACAGCCTGCGACCTCTCTGCGATTACTAAACCTTGGCCTATTCAACAACGGATAGCAGAA
 CTCGTGGCAGCTGAATTCCTTTGATCAAGGAGACAGAGAGAGAAAAAGAACTTAACATGGAGCCGGCTGATC
 TAATGAACAGAGAGAAGAAAAATAAAAATCCCAAGTATGCAAGTTGGGTTTATAGATGCCATCTGCTTGA
 GCTGTATGAGGCCCTGACCCACGTATCCGAAGACTGTTTGCCTTGTGGATGGCTGCAGGAAGAACAGA
 CAGAAATGGCAGGCCCTCGCGGAGCAGCAGGAGAAGATGCTCCTTAAACGGGGAGAGCAGCCAGGGCAAGC
 GGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_153422

Insert Size:	2598 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:	<u>NM_153422.2</u> , <u>NP_700471.2</u>
RefSeq Size:	6728 bp
RefSeq ORF:	2598 bp
Locus ID:	242202
UniProt ID:	<u>Q8CG03</u>
Cytogenetics:	3 G1
Gene Summary:	Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP. Specifically regulates nitric-oxide-generated cGMP.[UniProtKB/Swiss-Prot Function]