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Product datasheet for MC219649

Pde12 (NM_178668) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde12 (NM_178668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pde12
Synonyms:	2'-PDE; E430028B21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC219649 representing NM_178668
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAGGCTCCCGGGCCGCAGCGCGCTTCGTGGGGTCCGGTCGGTGGTGGAGCGGCGCAGCCGGGCCG
AGGCAGGGACTCACGAGGCGGTGCGCGCCATGGAGCGCGCGGTGGTGCGCTGTGTGCCCTCGGAGCCCAA
GCTCAGCCTGTCTTTCGCGTTGGCCGACGGCAGCCACAAAAACATGCAGAGGGACCAGAGCGAGCCTCTG
GGCCGGGCCCTCAGCCGGATCGCTACCAACGCCCTCAAGGGACACGCAAAGGTAGCGGCCGCCAAGAAGA
GCAGGAAGAACCGAGCCCACTCGAGCGGTGGCGCGGCCTGTGAGGCTACAGGGCCTGAGCCGGTTGCGAC
CTGCGAGCCGGTGGTGAAGCTGTACTACCGGGAGGAGGCGGTGGCCGAGGATGTGCTCAATGTGGACGCC
TGGCAGGACGGAGCGGTGCTGCAGATCGGCGACGTCAAGTACAAGGTGGAGCGCAACCCGCCCACCTTCA
CGGAGCTGCAGTTGCCGCGCTACATCATGGCTGGCTTCCCTGTGTGCCCCAAACTCGGCGTGGAATTTGG
GGATCCCGCCAGCTCCGTGTTCCGCTGGTACAAGGAAGTCAAACCCGGGGCGGCAGAACCTGGGGACAGC
GGCCCCGCGTCCTCGTCTCACTCTTCGCAGCCTTCAGCTTGGATCGAGACCGGTGTGGACGAGCGCGTCT
ACACCCCGTGCAATGCAGACATCGGGCTCCGGCTCCGGCTTCACTGTACACCGGGCAATGGGCAGCGCTT
CGGGCCAAGCCGGGAGCTAGAAAGCCTGTGCCCGGTGGAGGCCGGGCCTGGCACCTGCACTTTTGACCAT
CGACATCTGTACACCAAGAAGGTGACGGAGGACTCTTTCATCCGCACTGTCTCCTACAACATCCTGGCAG
ACACGTACGCCCAGACTGAGTTCTCTCGGACGGTCTTGTACCCGTACTGTGCCCCCTACGCCCTGGAGCT
TGACTACCGCCAGAATCTCATACAGAAGGAGCTCACAGGCTACAACGCAGACCTCATCTGTTTGCAGGAG
GTGGACCGCGCGGTGTTCTCCGACAGCTTGGTACCGGCCCTGGAGGCCTTCGGGCTGGAGGGCGTGTTCC
GAATCAAGCAGCACGAAGGCCTGGCCACTTTCTACCGGAAGTCCAAGTTCAGGCTCCTTAGTCAACATGA
CATCTCTTTTCAAGAAGCCCTCAAGTCGGACCCACTGCACAAAGAATTACTAGAGAAGCTGGCTTTGAAC
CCATTAGCACAGGAGAAGGTCCTCCAGAGGTCATCTGTCCTTCAGATTTCAGTTCTTCAGTCTACAACAG
ACTCTTCCAAAAAGATATGTGTTGCTAATACCCATCTCTACTGGCACCCAAAAGGTGGATACATTCGTCT
CATTCAAATGGAAGTAGCCTTGGTTCATATTAGACATGTCTCACGTGATCTCTATCCTGGCATACCAGTT
ATATTTTGTGGAGACTTTAATAGTACACCATCAACAGGCATGTATCATTTTGTCATCAGTGGCAGCATTG
CAGAGGATCATGAAGACTGGGCTTCCAATGGGGAAGAGGAGAGATGCAGCATGCCTCTCTCACACTGTTT
CAAACTGAAGAGTGCTTGTGGTGAACCTGCCTACACAAATTATGTCGGTGGCTTTCACGGATGTCTAGAT
TACATTTTCATTGACTTAAATACTTTAGAGGTTGAACAGGTGATTCCATTACCTAGTCATGAAGAAGTTA
CCACCCACCAGGCCTTACCTAGTGTTTCTCATCCTTCTGATCACATAGCACTTGTATGTGACTTAAAATG
GAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178668

Insert Size: 1827 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178668.3, NP_848783.3
RefSeq Size:	3551 bp
RefSeq ORF:	1827 bp
Locus ID:	211948
UniProt ID:	Q3TIU4
Cytogenetics:	14 A3
Gene Summary:	Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A system. Degrades triphosphorylated 2-5A to produce AMP and ATP. Also cleaves 3',5'-phosphodiester bond of oligoadenylates. Plays a role as a negative regulator of the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of this enzyme increases cellular 2-5A levels and decreases viral replication in cultured small-airway epithelial cells.[UniProtKB/Swiss-Prot Function]