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# Product datasheet for MG225474

## Pde4d (NM_011056) Mouse Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Pde4d (NM_011056) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Pde4d |
| **Synonyms:** | 9630011N22Rik; Dpde3 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>MG225474 representing NM_011056
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGGGACACTTGTGATGTACTCTCTCGGAGCAAAAGTGCCTCTGAGGAAACACTGCACTCCTGTA
ATGAAGAAGAGGACCCTTTTCGTGGAATGGAGCCCTATCTCGTACGGCGACTTTCTTCCCGCAGCATTCA
GCTTCCACCTCTGGCCTTCAGACAGTTGGAACAAGCAGACTTGCGAAGCGAATCAGAGAACATCCCTCGG
CCAACTAGCCTCCCCTTGAAAATCCTGCCTCTGATCGCCGTCACATCTGCAGACTCAAGTGGTTTCGATG
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TCTCCAAAGTCTATGTCCAGGAACTCCTCGATTGCCAGTGATATACATGGAGATGACTTGATTGTGACCC
CGTTTGCTCAGGTCTTGGCTAGCCTGCGAACCGTACGGAACAACTTTGCTGCGTTAACGAATTTGCAAGA
CCGAGCACCCAGCAAAAGATCACCCATGTGCAACCAACCATCCATCAACAAAGCCACCATCACAGAGGAG
GCCTACCAGAAACTGGCCAGCGAGACCCTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCCTGC
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CATGAAGTGGAAATCCCCTCTCCAACTCAGAAGGAAAAGGAGAAGAAGAAAAGGCCGATGTCGCAGATCA
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GCAGAGCTGTCTGGTAACCGGCCTCTGACTGTTATCATGCACACCATTTTTCAGGAACGAGATTTGTTAA
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CGTGGCCTATCACAACAACATCCATGCTGCAGACGTCGTCCAGTCCACTCACGTGCTGCTCTCTACACCC
GCTTTGGAGGCTGTGTTCACAGACTTGGAGATTCTCGCGGCCATTTTTGCCAGTGCAATACATGATGTGG
ACCATCCTGGGGTGTCAAATCAATTTCTGATCAATACAAACTCGGAACTCGCTCTGATGTACAACGACTC
CTCGGTCCTAGAGAACCATCACCTGGCGGTGGGCTTTAAGTTGCTCCAGGAAGAAAACTGTGACATTTTC
CAGAATCTGACCAAAAAGCAAAGACAATCTTTAAGGAAAATGGTCATTGACATTGTCCTGGCGACAGACA
TGTCGAAGCACATGAACCTGCTGGCTGATCTGAAAACCATGGTTGAAACCAAGAAGGTGACAAGCTCCGG
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AAAATCACAGGTGGGCTTCATAGACTATATCGTTCATCCACTCTGGGAGACGTGGGCAGACCTCGTACAT
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TGCAGTGACTCTAAGACTCTGTGCACCCAAGACTCAGAGTCCACTGAAATTCCCCTTGACGAGCAGGTTG
AGGAGGAAGCTGTAGCAGAAGAGGAAAGCCAGCCTGAAACTTGCGTCCCAGATGACTGCTGTCCTGATAC
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

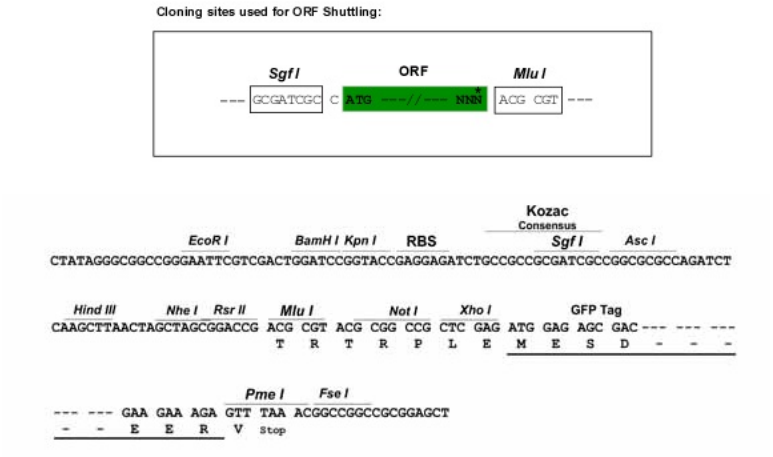
>MG225474 representing NM_011056
Red=Cloning site Green=Tags(s)

MERDTCDVLSRSKSASEETLHSCNEEEDPFRGMEPYLVRRLSSRSIQLPPLAFRQLEQADLRSESENIPR
PTSLPLKILPLIAVTSADSSGFDVDNGTSAGRSPLDPMTSPGSGLILQANFVHSQRRESFLYRSDSDYDL
SPKSMSRNSSIASDIHGDDLIVTPFAQVLASLRTVRNNFAALTNLQDRAPSKRSPMCNQPSINKATITEE
AYQKLASETLEELDWCLDQLETLQTRHSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQ
HEVEIPSPTQKEKEKKKRPMSQISGVKKLMHSSSLTNSCIPRFGVKTEQEDVLAKELEDVNKWGLHVFRI
AELSGNRPLTVIMHTIFQERDLLKTFKIPVDTLITYLMTLEDHYHADVAYHNNIHAADVVQSTHVLLSTP
ALEAVFTDLEILAAIFASAIHDVDHPGVSNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDIF
QNLTKKQRQSLRKMVIDIVLATDMSKHMNLLADLKTMVETKKVTSSGVLLLDNYSDRIQVLQNMVHCADL
SNPTKPLQLYRQWTDRIMEEFFRQGDRERERGMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVH
PDAQDILDTLEDNREWYQSTIPQSPSPAPDDQEEGRQGQTEKFQFELTLEEDCESDTEKDSGSQVEEDTS
CSDSKTLCTQDSESTEIPLDEQVEEEAVAEEESQPETCVPDDCCPDT

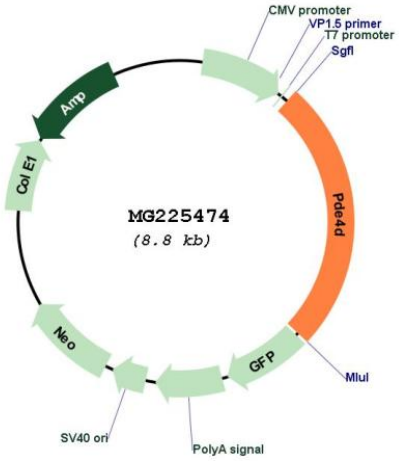
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



Plasmid Map:




| | |
|---|---|
| **ACCN:** | NM_011056 |
| **ORF Size:** | 2241 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_011056.2, NP_035186.1 |
| **RefSeq Size:** | 7049 bp |
| **RefSeq ORF:** | 2244 bp |
| **Locus ID:** | 238871 |

| | |
|---|---|
| **UniProt ID:** | Q01063 |
| **Cytogenetics:** | 13 59.69 cM |
| **Gene Summary:** | Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.[UniProtKB/Swiss-Prot Function] |