

Product datasheet for **MG224845**

Pde4b (NM_001177980) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde4b (NM_001177980) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde4b
Synonyms:	Dpde4; dunce; R74983
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224845 representing NM_001177980
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGAGCAAGGGGGACCGTCAGTGGCCCGCGAGCAGCCGAGGTGGAGGAGACTCGGCTATGGCCA
 GCCTGCAGCCACTGCAGCCTAACTACCTGTCTGTGTGTTGTTTCCAGAAGAATCATATCAGAACTAGC
 AATGGAGACGCTGGAGGAAGTAGACTGGTGCCTAGACCAGCTAGAGACCATCCAGACCTACCGCTGTGC
 AGCGAGATGGCTTCAAACAAGTTCAAAGGATGCTGAACCGGGAGCTGACACACCTCTCAGAGATGAGCA
 GATCAGGGAACAGGTGTCTGAGTACATTTCAAACACGTTCTTAGACAAGCAGAACGATGTGAAATCCC
 ATCTCCCACGCAGAAGGACAGGGAGAAGAAGAAGCAGCAGCTCATGACCCAGATAAGTGGAGTGAAG
 AAAGTATGCACAGCTCAAGCCTGAACAACACAAGCATCTCACGTTCCGGAGTCAACACGGAAAAATGAGG
 ATCATCTAGCCAAGGAGCTGGAAGACCTGAACAAATGGGGCCTAACATCTTCAATGTGGCTGGGACTC
 ACATAATCGGCCCTTACGTGCATCATGTATGCAATATCCAGGAAAGAGACCTTCTGAAGACGTTTAAA
 ATCTCATCTGACACCTTTGTAACCTACATGATGACTTTAGAAGACCATTACCATTCTGATGTGGCATATC
 ACAACAGCCTGCATGCTGCTGACGTGGCCAGTCAACTCACGTTCTCTTTCTACGCCGGCACTGGATGC
 TGTCTTACAGACCTGGAAATCCTGGCTGCCATTTTTCAGCTGCCATCCATGATGTCGATCATCTGGA
 GTCTCCAATCAGTTTCTCATCAATACAAATTCGAACTTGCTTTGATGTATAATGATGAATCTGTCTGG
 AAAACCATCACCTTGCTGTGGGATTCAAATTCGTAACAAGGAACTGCGACATCTTTCAGAATCTTAC
 CAAGAAGCAACGCCAGACACTCAGGAAATGGTGATTGACATGGTGTGGCAACTGATATGTCCAAACAC
 ATGAGCCTCCTGGCAGACCTTAAACAATGGTAGAAACCAAGAAGGTGACAAGCTCCGGTGTCTCCTCC
 TGGACAACATACTGACCGGATACAGTTCTTCGCAACATGGTACACTGTGCAGACCTGAGCAACCCAC
 CAAGTCCTTGAATTGTATCGGCAATGGACCGATCGTATCATGGAGGAGTTTTTCCAGCAGGGAGACAAA
 GAACGGGAGAGGGGAATGGAGATTAGCCCAATGTGTGATAAGCACACAGCTTCTGTGAAAAATCCAGG
 TTGGTTTCATTGACTACATTGTCCATCCACTGTGGGAGACCTGGGCAGACCTGGTTCAACCGGATGCTCA
 AGATATTCTGGATACACTAGAAGATAACAGGAACTGGTACCAGAGTATGATACCCAGAGCCCTTCCCCG
 CCACTGGATGAGAGGAGCAGGGACTGCCAAGGCCTGATGGAGAAGTTTCAGTTTGAAGTACCCTTGAGG
 AAGAGGATTCTGAGGGACCGGAAAAGGAGGGAGAAGGCCACAGCTATTTACAGCAGCACAAAGACGCTTG
 TGTGATTGATCCAGAGAACAGGGATTCTCTGGAAGAGACTGACATAGACATTGCAACAGAAGACAAGTCT
 CCGATCGACACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224845 representing NM_001177980
 Red=Cloning site Green=Tags(s)

MKEQGGTVSGAASSRGGDSAMASLQPLQPNYLSVCLFPEESYQKLAMETLEELDWCLDQLETIQTYRSV
 SEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQNDVEIPSPTQKDREKKKQQLMTQISGVK
 KLMHSSSLNNTSISRFGVNTENEDHLAKELEDLNKWLNIIFNVAGYSHNRPLTCIMYAIQERDLLKTFK
 ISSDTFVTYMMTLEDHYHSDVAYHNSLHAADVAQSTHVLLSTPALDAVFTDLEILAAIFAAAIIHDVDHPG
 VSNQFLINTNSELALMYNDESVLENHHLAVGFKLLQEEHCDIFQNLTKKQRQTLRKMVIDMVLATDMSKH
 MSLADLKTMTVETKKVTSVGVLNLDNYTDRIQVLRNMVHCADLSNPTKSLELYRQWTDRIEMEEFFQQGDK
 ERERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADLVQPDAQDILDLEDRNRNRYQSMIPQSPSP
 PLDERSRDCQGLMEKQFELTLEEDSEGPEKEGEGHSYFSSKTLCVIDPENRDSLEETDIDIATEDKS
 PIDT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001177980

ORF Size: 1692 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.
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_001177980.1](#), [NP_001171451.1](#)

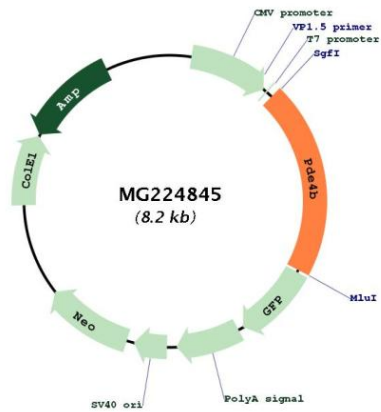
RefSeq Size: 4206 bp

RefSeq ORF: 1695 bp

Locus ID: 18578

Cytogenetics: 4 46.99 cM

Product images:



Circular map for MG224845