OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR208512

Pde8b (NM_199268) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde8b (NM_199268) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pde8b
Synonyms:	RNPDE8B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR208512 representing NM_199268
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGACTGACACAGGACCCTATCCAGGTCCTGCTGATCTTTGCAAAAGAAGATAGCCAGAGCGATGGCT
TCTGGTGGGCTTGTGACAGAGCTGGCTACAGATGCAACATTGCTCGAACTCCAGAGTCGGCCCTCGAATG
CTTTCTGGATAAGCATCATGAGATTATAGTGATCGATCACAGGCAGACCCGTAACTTTGATGCAGAAGCC
GTGTGCAGGTCAATCCGGGCCACGAACCCCTCTGAGCACACAGTGATCCTGGCTGTGGTTTCACAAGCAT
CTGATGACCATGAAGAGGCCTCGGTCCTTCCTCTTCTCCATGCAGGCTTTAACCGGAGATTTATGGAGAA
CAGCAGCATAATTGCTTGCTATAATGAACTGATTCAAATAGAACACGGGGAAGTTCGCTCGCAGTTCAAA
TTACGGGCCTGTAACTCAGTGTTTACAGCGTTAGACCACTGTCACGAAGCCATAGAAATAACAAGTGATG
ACCACGTGATTCAGTATGTCAACCCTGCCTTTGAGAGGATGATGGGCTACCACAAAGGGGAGCTCCTGGG
GAAGGAACTCGCTGACCTACCTAAGAGTGACAAGAACCGGGCAGACCTCCTGGACACCATCAACACGTGC
ATCAAGAAGGGAAAGGAGTGGCAGGGGGTTTACTATGCCAGACGGAAATCCGGGGACAGCATCCAACAGC
ACGTGAAGATCACCCCAGTGATTGGCCAAGGAGGGAAAATTAGGCACTTTGTCTCCCTCAAGAAGCTGTG
CTGTACCACTGACAGTAGCAAGCAGATCCACAGGATTCATCGCGATTCCGGAGACAACTCTCAGACAGAG
CCTCATTCGTTCAGACACAAGAGCAGGAGAAAAGAGTCCATTGATGTGAAATCAATATCTTCTCGAGGCA
GTGATGCGCCAAGCCTACAGAATCGCCGCTACCCCTCCATGGCAAGGATCCACTCCATGACCATTGAGGC
CCCCATCACAAAGGTTATAAATATAATCAACGCCGCTCAAGAAAACAGCCCAGTTACAGTGGCAGAAGCC
TTGGACAGAGTTCTAGAAATTTTACGGACCACAGAACTGTACTCCCCGCAGCTGGGAACCAAGGACGAAG
ATCCTCACACCAGTGACCTTGTCGGAGGCCTGATGACCGATGGCTTGAGGAGACTGTCAGGGAATGAGTA
CGTGTTTACAAAGAATGTGCACCACAGTCACAGTCACCTCTCGATGCCCATCACCATCAACGATGTCCCC
CCAAGTATTGCCCAGCTCCTTGATAATGAGGAAAGTTGGGACTTCAACATCTTTGAATTGGAAGCTATTA
CACATAAAAGGCCACTTGTGTACCTGGGCTTAAAGGTCTTCTCTCGGTTTGGAGTATGTGAATTTTTAAA
CTGTACCGAAACCACTCTTCGGGCCTGGCTGCAAGTGATTGAAGCAAACTACCACTCCTCCAATGCCTAC
CACAACTCCACCCATGCCGCCGACGTACTGCACGCCACGGCTTTCTTCCTTGGAAAGGAAAGAGTGAAGG
GAAGCCTGGACCAGCTGGATGAGGTGGCGGCTCTGATTGCAGCCACGGTGCATGACGTGGATCACCCCGG
AAGAACCAACTCCTTCCTGTGTAACGCAGGCAGCGAGCTCGCTGTGCTCTACAACGACACTGCGGTCTTG
GAGAGTCACCACACAGCCCTGGCCTTCCAGCTCACCGTCAAGGACACCAAGTGCAACATTTTCAAGAATA
TCGACAGGAACCACTATCGAACGCTGCGCCAGGCTATTATTGACATGGTTTTGGCCACAGAGATGACAAA
ACACTTTGAACATGTGAACAAGTTTGTGAACAGCATCAACAAGCCTCTAGCAGCCGAGAGTGAGGGCAGC
GACTGTGAATGCAACCCTACTGGGAAGAACTTTCCCGAAAACCAAATCCTCATCAAGCGTATGATGATTA
AGTGTGCTGACGTGGCCAACCCGTGCCGCCCCTTGGACCTGTGCATCGAATGGGCTGGAAGGATCTCCGA
GGAGTACTTTGCACAGACTGACGAAGAGAAGAGGCAGGGGCTGCCTGTAGTGATGCCAGTGTTCGACCGC
AATACCTGCAGCATCCCCAAGTCGCAGATATCCTTCATCGACTACTTCATAACAGACATGTTTGATGCTT
GGGATGCCTTTGCACACCTGCCAGCCCTGATGCAACACCTGGCCGACAACTATAAACACTGGAAGACACT
GGATGACCTCAAGTGCAAAAGTCTGAGACTTCCATCTAACAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

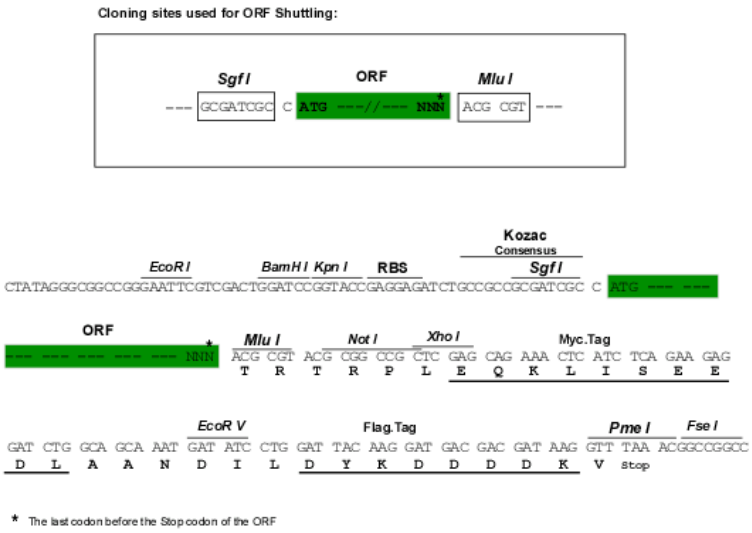
>RR208512 representing NM_199268
Red=Cloning site Green=Tags(s)

MRLTQDPIQVLLIFAKEDSQSDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTRNFDAEA
VCRSIRATNPSEHTVILAVVSQASDDHEEASVLPLLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFK
LRACNSVFTALDHCHEAIEITSDDHVIQYVNPAFERMMGYHKGELLGKELADLPKSDKNRADLLDTINTC
IKKGKEWQGVYYARRKSGDSIQQHVKITPVIGQGGKIRHFVSLKKLCCTTDSSKQIHRIHRDSGDNSQTE
PHSFRHKSRRKESIDVKSISSRGSDAPSLQNRRYPSMARIHSMTIEAPITKVINIINAAQENSPVTVAEA
LDRVLEILRTTELYSPQLGTKDEDPHTSDLVGGLMTDGLRRLSGNEYVFTKNVHHSHSHLSMPITINDVP
PSIAQLLDNEESWDFNIFELEAITHKRPLVYLGLKVFSRFGVCEFLNCTETTLRAWLQVIEANYHSSNAY
HNSTHAADVLHATAFFLGKERVKGSLDQLDEVAALIAATVHDVDHPGRTNSFLCNAGSELAVLYNDTAVL
ESHHTALAFQLTVKDTKCNIFKNIDRNHYRTLRQAIIDMVLATEMTKHFEHVNKFVNSINKPLAAESEGS
DCECNPTGKNFPENQILIKRMMIKCADVANPCRPLDLCIEWAGRISEEYFAQTDEEKRQGLPVVMPVFDR
NTCSIPKSQISFIDYFITDMFDAWDAFAHLPALMQHLADNYKHWKTLDDLKCKSLRLPSNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199268

ORF Size: 2283 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_199268.1, NP_954889.1

RefSeq Size: 2435 bp

RefSeq ORF: 2286 bp

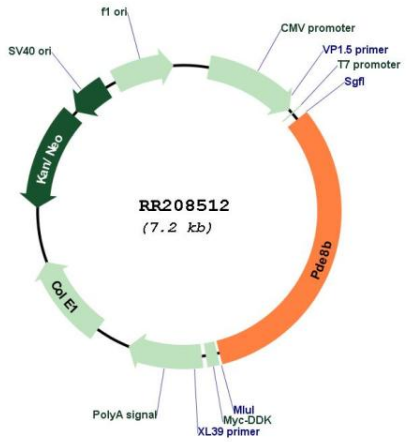
Locus ID: 309962

Cytogenetics: 2q12

MW: 86.2 kDa

Gene Summary: a cAMP-specific member of the PDE superfamily of cyclic nucleotide phosphodiesterases; involved in inhibition of intracellular cAMP signalling [RGD, Feb 2006]

Product images:



Circular map for RR208512