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Product datasheet for MG219052

Pde2a (NM_001143849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pde2a (NM_001143849) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pde2a
Synonyms:	CGS-PDE; cGSPDE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG219052 representing NM_001143849
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCTGGTGTTGCACCACATCCTCATCGCTGTTGTCCAATTCCTCAGGCGGGGCCAGCAGGTCTTCC
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CGTTATCGACATTGCTGGCCTGCGACAGGCTGCCAGGGATGCCCTCTCAGCCGTGCTCCCCAAAGTGGAG
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CCACAAGTTCACCATCCGAGGCCTCCCCAGTAACAACTCGCTGGATTTCCTGGACGAGGAATACGAGGTC
CCCGATTTGGACGGCACCAGAGCTCCTGTCAATGGCTGCTGCAGCCTCGAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219052 representing NM_001143849
Red=Cloning site Green=Tags(s)

MVLVLHHILIAVVQFLRRGQQVFLKPDEPPPQPCADSLQDALLSLGAVIDIAGLRQAARDALSAVLPKVE
TVYTYLLDGESRLVCEDPPHELPQEGKIREAVISQKRLSCNGLGPSDLLGKPLARLVAPLAPDMQVLVIP
LLDKETGSVAAVILVHCGQLSDSEEQSLQVVEKHALVALRRVQALQQRRPEAVQNTSVDASEDQKDEKGY
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LCFPIKNENQEVIGVAELVNKINGPWFSKFDEDLATAFSIYCGISIAHSLLYKKVNEAQYRSHLANEMMM
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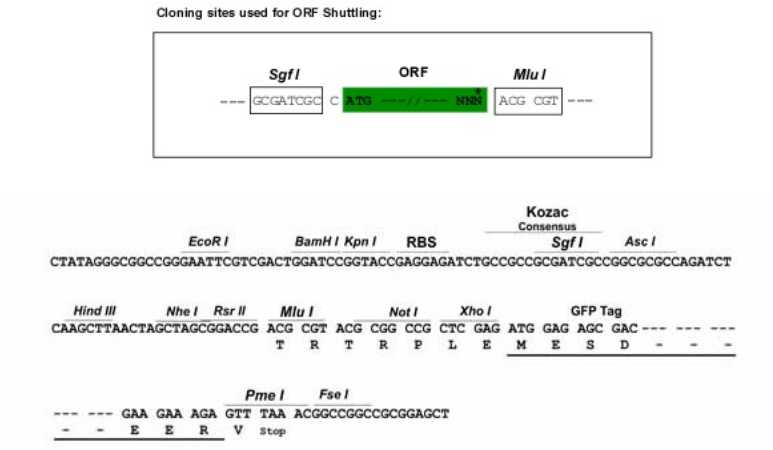
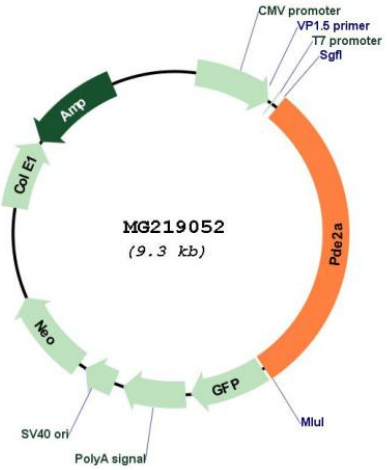
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001143849
ORF Size:	2784 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_001143849.2, NP_001137321.1
RefSeq Size:	4067 bp
RefSeq ORF:	2787 bp
Locus ID:	207728
UniProt ID:	Q922S4
Cytogenetics:	7 E2

Gene Summary: Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. [UniProtKB/Swiss-Prot Function]