

## Product datasheet for **RR205407**

### Ptgds (NM\_013015) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptgds (NM\_013015) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ptgds  
**Synonyms:** PH2DISO  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR205407 representing NM\_013015  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTCTTCCAATGCTGTGGACCGGGCTGGTCTTGGGTCTCTTGGGATTTCCACAGACCCAG  
CCCAGGGCCATGACACAGTGCAGCCCACTTTCAACAAGACAAGTTCTGGGGCGCTGGTACAGCGCGGG  
CCTCGCCTCCAATTCAAGCTGGTCCGGGAGAAGAAAGAGCTACTGTTTATGTCCAGACAGTGGTAGCT  
CCCTCCACAGAAGCGGCCCTCAACCTCACCTCTACCTTCTAAGGAAAAACCAGTGTGAGACCAAGTGA  
TGGTACTGCAGCCGGCAGGGGTTCCCGGACAGTACACCTACAACAGCCCCACTGGGGCAGCTTCCACTC  
CCTCTCAGTGGTAGAAACCGACTACGATGAGTACGCGTTCTGTTTCAGCAAGGGCACCAAGGCCCCAGGC  
CAGGACTTCCGCATGGCCACCCTCTACAGCAGAGCCCAGCTTCTGAAGGAGGAACTGAAGGAGAAATTC  
TCACTTTAGCAAGGACCAGGGCCTCACAGAGGAGGACATTGTTTTCTGCCCAACCGGATAAGTGCAT  
TCAAGAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR205407 representing NM\_013015  
 Red=Cloning site Green=Tags(s)

MAALPMLWTGLVLLGLLGFPQTPAQGHDTVQPNFQQDKFLGRWYSAGLASNSSWFREKKELLFMCQTVVA  
PSTEGGLNLTSTFLRKNQCETKVMVLQPAGVPGQYTYNSPHWGSFHLSVVETDYDEYAFLLFSKGTGKPG  
QDFRMTLYSRAQLLKEELKEKFIITFSKDQGLTEEDIVFLPQDPKCIQE

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

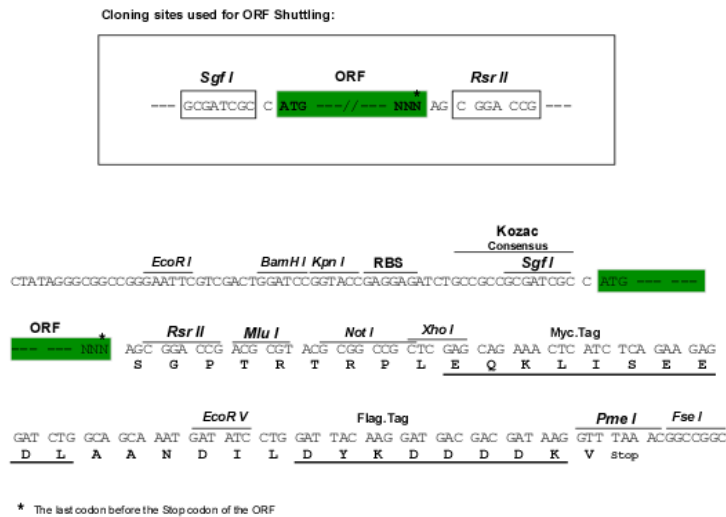


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Chromatograms: [https://cdn.origene.com/chromatograms/ja3703\\_c06.zip](https://cdn.origene.com/chromatograms/ja3703_c06.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_013015

ORF Size: 567 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\\_013015.2](#), [NP\\_037147.1](#)

RefSeq Size: 759 bp

RefSeq ORF: 570 bp

Locus ID: 25526

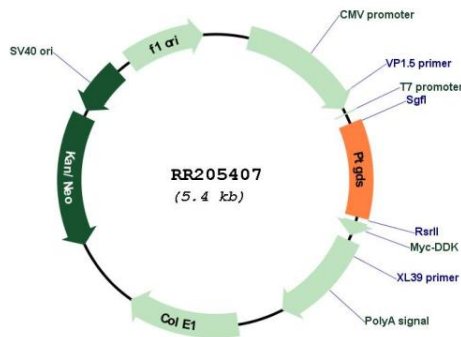
UniProt ID: [P22057](#)

Cytogenetics: 3p13

MW: 21.3 kDa

Gene Summary: catalyzes conversion of prostaglandin H2 to prostaglandin D2, a major prostaglandin that mediates sleep, body temperature, hormone release, and odor responses [RGD, Feb 2006]

**Product images:**



Circular map for RR205407