

Product datasheet for RG205199

PTS (NM_000317) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTS (NM_000317) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: PTS

Synonyms: PTPS

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG205199 representing NM_000317

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGCACGGAAGGTGGTGGCCGTCGCTGCCAGGCACAAGTGTCCCGCCGCATCTCCTTCAGCGCGAGCC ACCGATTGTACAGTAAATTTCTAAGTGATGAAGAAAACTTGAAACTGTTTGGGAAATGCAACAATCCAAA TGGCCATGGGCACAATTATAAAGTTGTGGTGACAGTACATGGAGAGATTGACCCTGCTACGGGAATGGTT ATGAATCTGGATCTCAAAAAAATATATGGAGGAGGCGATTATGCAGCCCCTTGATCATAAGAATCTGG ATATGGATGTGCCATACTTTGCAGATGTTGTGAGCACGACTGAAAATGTAGCTGTTTATATGTGGGACAA CCTCCAGAAAAGTTCTTCCTGTAGGAGTTCTTTATAAAGTAAAAGTATACGAAACTGACAATAATATTGTG

GTTTATAAAGGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205199 representing NM_000317

Red=Cloning site Green=Tags(s)

MSTEGGGRRCQAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNGHGHNYKVVVTVHGEIDPATGMV MNLADLKKYMEEAIMQPLDHKNLDMDVPYFADVVSTTENVAVYMWDNLQKVLPVGVLYKVKVYETDNNIV

VYKGE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



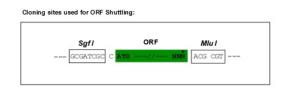
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

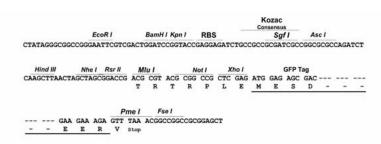
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

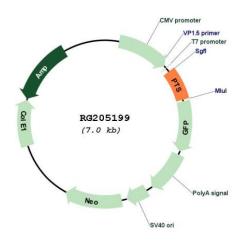


Cloning Scheme:





Plasmid Map:



ACCN: NM_000317

ORF Size: 435 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.

PTS (NM_000317) Human Tagged ORF Clone - RG205199

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: <u>NM 000317.1</u>, <u>NP 000308.1</u>

 RefSeq Size:
 921 bp

 RefSeq ORF:
 438 bp

 Locus ID:
 5805

 UniProt ID:
 Q03393

 Cytogenetics:
 11q23.1

 Domains:
 PTPS

Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Gene Summary: The enzyme encoded by this gene catalyzes the elimination of inorganic triphosphate from

dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from GTP. Tetrahydrobiopterin, also known as BH(4), is an essential cofactor and regulator of various enzyme activities, including enzymes involved in serotonin

biosynthesis and NO synthase activity. Mutations in this gene result in

hyperphenylalaninemia. [provided by RefSeq, Oct 2008]