

# **Product datasheet for MG219795**

## Pth2 (NM\_053256) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Pth2 (NM\_053256) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Pth2

**Synonyms:** Tifp; Tifp39; TIP; Tip39

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG219795 representing NM\_053256

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**TGTTGCTACTGGACGCGCCC** 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219795 representing NM\_053256

Red=Cloning site Green=Tags(s)

METCOMSRSPRERLLLLLLLLLLVPWGTGPASGVALPLAGVFSLRAPGRAWAGLGSPLSRRSLALADDAA

FRERARLLAALERRRWLDSYMQKLLLLDAP

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



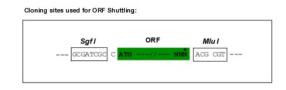
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

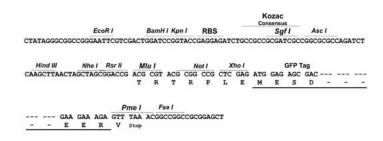
CN: techsupport@origene.cn

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

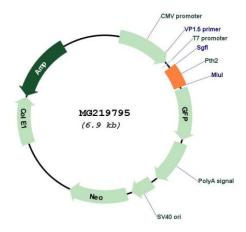


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM\_053256

ORF Size: 300 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

### Pth2 (NM\_053256) Mouse Tagged ORF Clone - MG219795

**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: <u>NM 053256.2</u>, <u>NP 444486.1</u>

RefSeq Size: 569 bp
RefSeq ORF: 303 bp
Locus ID: 114640
UniProt ID: Q91W27
Cytogenetics: 7 B3

**Gene Summary:** This gene encodes the precursor of a peptide hormone that shares sequence similarity with

the parathyroid hormone. This gene is expressed in various regions of the brain where it plays a role in the release of pituitary hormones, anxiety and nociception. The encoded

precursor protein is proteolytically processed to generate the biologically active neuropeptide. Mice lacking the encoded protein display increased fear and anxiety after exposure to

stressful events, and decreased sensitivity to pain. [provided by RefSeq, Aug 2015]