

## **Product datasheet for RG222179**

## GPX5 (NM\_003996) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: GPX5

**Synonyms:** EGLP; GPx-5; GSHPx-5; HEL-S-75p

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide Sequence: >RG222179 representing NM\_003996

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCTTTTTGAGAAAGGGGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG222179 representing NM\_003996

Red=Cloning site Green=Tags(s)

MTTQLRVVHLLPLLLACFVQTSPKQEKMKMDCHKDEKGTIYDYEAIALNKNEYVSFKQYVGKHILFVNVA

TYCGLTAQYPGMSVQGEDLYLVSSFLRKGM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



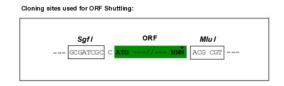
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

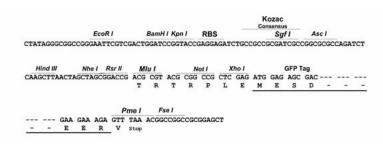
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EU: info-de@origene.com CN: techsupport@origene.cn



## **Cloning Scheme:**





**ACCN:** NM\_003996

ORF Size: 300 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customer.care">customer.care</a> team at <a href="mailto:customer.ca

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).

**■**OR**i**GENE

**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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

**RefSeq:** <u>NM\_003996.3</u>, <u>NP\_003987.2</u>

RefSeq Size: 1334 bp

RefSeq ORF: 303 bp

**Locus ID:** 2880

**UniProt ID:** <u>075715</u>

Cytogenetics: 6p22.1

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Arachidonic acid metabolism, Glutathione metabolism

Gene Summary: This gene belongs to the glutathione peroxidase family. It is specifically expressed in the

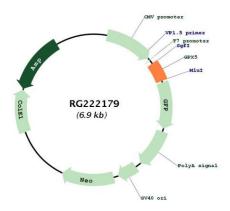
epididymis in the mammalian male reproductive tract, and is androgen-regulated. Unlike several other characterized glutathione peroxidases, this enzyme is not a selenoprotein, lacking the selenocysteine residue. Thus, it is selenium-independent, and has been proposed to play a role in protecting the membranes of spermatozoa from the damaging effects of lipid

peroxidation and/or preventing premature acrosome reaction. Alternatively spliced transcript

variants have been found for this gene. [provided by RefSeq, Oct 2016]



## **Product images:**



Circular map for RG222179