

## Product datasheet for MG213605

## Mgst2 (NM\_174995) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Mgst2 (NM\_174995) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Mgst2

Synonyms: GST2; MGST-II

Mammalian Cell Neomycin

Selection:

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

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

ORF Nucleotide >MG213605 representing NM\_174995

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AAGAAACTGAGGAAGCCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG213605 representing NM\_174995

Red=Cloning site Green=Tags(s)

MAGDSSLLAAVSLLSACQQSYFAWRVGRARLKHKIAPPAVTGPLEFERIFRAQQNSLEFYPVFIVMLWMA GWYFNQVFAACLGLLYIYARHKYFWGYAEAAEKRITGFRLSLGILTLLPVLAVLGVASRFLNEYLDFHVA

KKLRKPF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



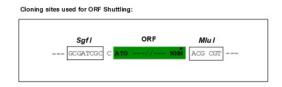
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

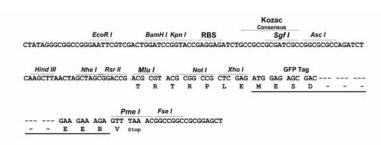
CN: techsupport@origene.cn

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

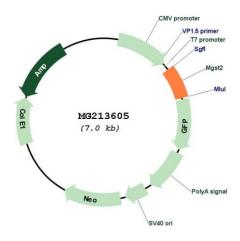


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM 174995

ORF Size: 441 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:** <u>NM 174995.3</u>, <u>NP 778160.2</u>

RefSeq Size:593 bpRefSeq ORF:444 bpLocus ID:211666UniProt ID:A2RST1

Cytogenetics: 3 C

Gene Summary: Catalyzes several different glutathione-dependent reactions. Catalyzes the glutathione-

dependent reduction of lipid hydroperoxides, such as 5-HPETE. Has glutathione transferase

activity, toward xenobiotic electrophiles, such as 1-chloro-2, 4-dinitrobenzene (CDNB). Catalyzes also the conjugation of leukotriene A4 with reduced glutathione to form leukotriene

C4 (LTC4) (By similarity). Involved in oxidative DNA damage induced by ER stress and anticancer agents by activating LTC4 biosynthetic machinery in nonimmune cells

(PubMed:26656251).[UniProtKB/Swiss-Prot Function]