

## Product datasheet for **MG202525**

### Gpx6 (NM\_145451) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpx6 (NM\_145451) Mouse Tagged ORF Clone  
**Symbol:** Gpx6  
**Synonyms:** 1700020G18Rik; olfa; olfactory; Ry2d1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202525 representing NM\_145451  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCAGAAGTTGTGGGGTTCCTGTCTTTTCTCATTGTTTATGGCTGCCTTAGCTCAGGAGACTCTGA  
ATCCTCAAAAATCGAAGTGGATTGCAACAAAGGGTACTGGCACCGTCTATGAGTATGGAGCCAAACAC  
CATAGATGGTGGGGGTTTGTCACTCCAGCAGTATGCAGGAAAGCACATCCTTTGTCAACGTGGCA  
TCCTTCTGTGGCCTGACAGCTACGTACCCTGAGTTGAACACACTGCAGGAGGAGCTGAAGCCATTCAACG  
TCACGGTTTTGGCTTTCCGTGCAACCAGTTCGGAAAGCAAGAACCTGGAAAGAAGCTCAGAGATTCTCCT  
TGGACTCAAGTATGTGCGTCCAGGCGGTGGCTATGTCCCAATTTCCAGCTCTTTGAGAAGGGGATGTG  
AACGGAGACAATGAACAAAAGGTTTTTCTTTCTAAAGAACTCCTGCCCTCCACCTCTGAACTTTTTG  
GCTCTCCAGAACATCTCTTCTGGGATCCCATGAAGATTATGATATCCGCTGGAACCTTTGAGAAGTTCT  
GGTGGGACCTGATGGAGTCCCTGTATGCGCTGGTTCACCATACTCCTGTGAGAATTGTCCAGTCAGAC  
ATCATGGAGTACCTAAACCAACAGTACCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG202525 representing NM\_145451  
Red=Cloning site Green=Tags(s)

MAQKLWGSCFLSFLMAALAQETLNPQKSKVDCNKGVGTGVVEYGANTIDGGGFVNFQYAGKHILFVNVA  
SFCGLTATYPELNTLQEELKPFNVTVLGFPCNQFGKQEPGKNSILLGLKYVRPGGGYVPNFQLFEKGDV  
NGDNEQKVFSLKNSCPPTSELFGSPEHLFWDPMKIHDRWNEKFLVGPDPVPMRWFHHTPVRIVQSD  
IMEYLNQSTQ

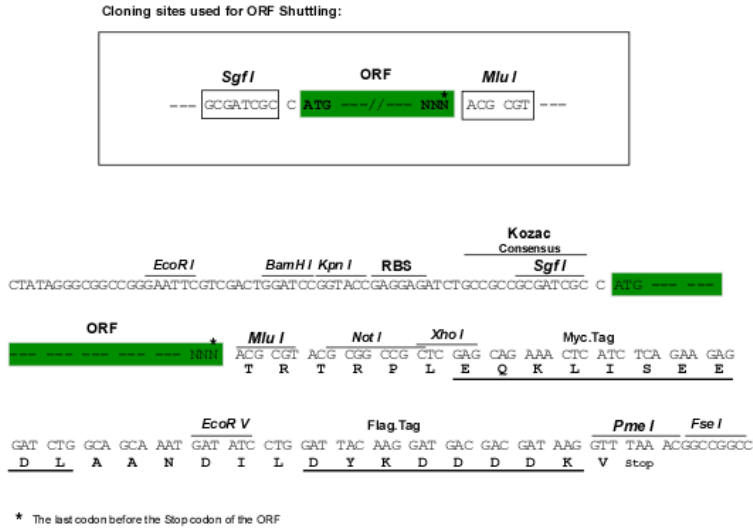
**TRTRPLE** - GFP Tag - V



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145451

**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](#) The expression of this clone is not guaranteed due to the nature of selenoproteins.

**OTI Annotation:** This clone encodes a selenoprotein containing the rare amino acid selenocysteine (Sec). Sec is encoded by UGA codon, which normally signals translational termination. Expression of this clone is not guaranteed due to the nature of selenoproteins.

**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\\_145451.2](#)

**RefSeq Size:** 1324 bp

**RefSeq ORF:** 666 bp

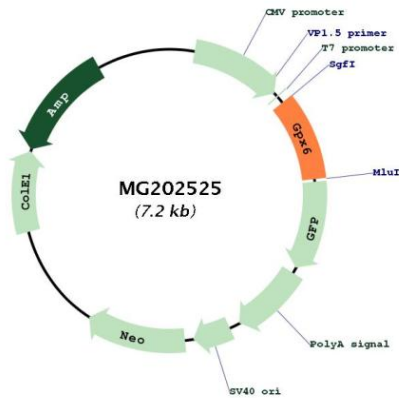
**Locus ID:** 75512

**UniProt ID:** [Q91WR8](#)

**Cytogenetics:** 13 A3.1

**Gene Summary:** This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidases catalyze the reduction of a variety of hydroperoxides using glutathione as a specific electron donor substrate, and thereby protect cells against oxidative damage. Expression of this gene is restricted to embryos and adult olfactory epithelium. The mouse and rat orthologs contain a cysteine (Cys) residue at the active site, unlike the human counterpart, which is a selenoprotein, containing selenocysteine (Sec) instead. [provided by RefSeq, Jul 2017]

**Product images:**



Circular map for MG202525