

## Product datasheet for **MR201744**

### Gpx7 (NM\_024198) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpx7 (NM\_024198) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gpx7  
**Synonyms:** 3110050F08Rik; AI327032; GPX6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201744 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTTGCAGCTGTGGCGACGGCGTGGCTGCTCCTGTGGGCCGGCCTGCGCGCAATCCGAGCAGGACT  
 TCTACGACTTCAAGGCGGTCAACATCCGGGCAAGCTGGTGTGCTGGAGAAGTACCGTGGCTCGGTTTC  
 CCTGGTGGTGAACGTAGCTAGCGAATGTGGCTTACAGACCAGAAGTACCGAGCCTTGCAGCAGCTGCAG  
 CGGGACCTGGGCCCCATCATTTAATGTGCTTCCCTTCAACCAGTTTGGCCAACGGAACCGAG  
 ACACCAACAGGGAGATTGAGAAGTTTGGCCGCCGACCTACAGTGTCTCTTTCCCATGTTTAGCAAGAT  
 CGCAGTCACTGGCACTGGTGCCACCCTGCCTTCAAGTACCTAACCCAGACTTCTGGGAAGGAGCCACC  
 TGGAACTTCTGGAAGTACCTAGTGGACCCAGACGAAAGGTGGTGGGAGCATGGGACCCACTGTGCCAG  
 TGGCGGAGATCAAGCCCCGATTACAGAGCAGGTGATGAAACTCATCCTTCGAAACGAGAAGACTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201744 protein sequence  
 Red=Cloning site Green=Tags(s)

MVAAVATAWLLLWAAACAQSEQDFYDFKAVNIRGKLVLSLEKYRGSVSLVNVVASECGFTDQNYRALQQLQ  
 RDLGPHHFNVLAFCNQFGQEPDTNREIENFARRTYSVSFPMFSKIAVTGTGAHPAFKYLQTSGKEPT  
 WNFWKYLVDPDGKVVGAWDPTVPAEIKPRITEQVMKLIILRKREDL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**



**ACCN:** NM\_024198

**ORF Size:** 561 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:** [NM\\_024198.3](#)

**RefSeq Size:** 1214 bp

**RefSeq ORF:** 561 bp

**Locus ID:** 67305

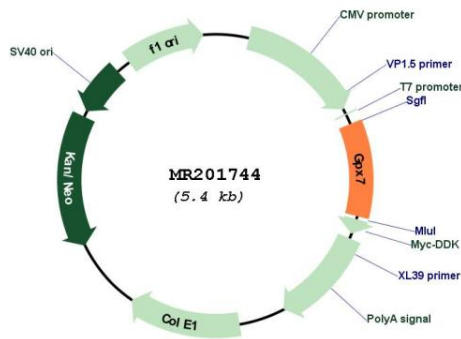
**UniProt ID:** [Q99LJ6](#)

**Cytogenetics:** 4 C7

**MW:** 21.1 kDa

**Gene Summary:** It protects esophageal epithelia from hydrogen peroxide-induced oxidative stress. It suppresses acidic bile acid-induced reactive oxygen species (ROS) and protects against oxidative DNA damage and double-strand breaks (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201744