

## Product datasheet for **RN207335**

### **Gsto2 (NM\_001012071) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gsto2 (NM\_001012071) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gsto2  
**Synonyms:** GSTO 2-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207335 representing NM\_001012071  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCTGGGGATTTGACAAGATGCTTGGGAAAGGAAGCTGTCCCCAGGGCCGGTCCCTGAGGGTGTGA  
TCCGAATCTACAGCATGAGGTTCTGCCCTACTCGCACAGGACACGCCTGGTCTCAAGGCCAAAAGCAT  
CAGGCATGAAATCATCAACATTAACCTGAAAAACAAGCCTGATTGGTACTATACAAAACACCCCTTTGGC  
CAGGTTTCCTGTCTGGAGAACAGCCAATGTCAGCTGATCTATGAATCCGTCATTGCGTGTGAGTACTGG  
ATGACGCTTCCAGGAAGGAAGCTGTTCCATACGACCCATATGAACGAGCTCGCCAGAAGATGTTATT  
GGAGCTATTCTGTAAGGTCCCACAGTAAAGCAAGGAATGTCTGGTAGCGCTGAGATGTGGGAGAGACTGT  
ACGGATCTGAAGTTGCCCTGCGTCAGGAGTTGTGCAATCTGGAAGAGATTCTTGAATATCAGAACACTA  
CCTTCTTCGGTGGAGACTCTATATCCATGATTGATTACCTCGTCTGGCCCTGGTTTGAGCGACTGGATGT  
ATATGGACTGGCTGACTGTGTGAATCACACCCAATGCTGCGGCTCTGGATATCCTCCATGAAGCAGGAC  
CCCGCAGTGTGCGCTCTGCACATTGATAAGAACATTTCTGGGCTTCTTGAATCTCTATTTCCAAAACA  
ACCTTGTGCCTTGATTTGGGCTGTGTGGCCAATCGTACGG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001012071  
**Insert Size:** 747 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_001012071.1</a></u> , <u><a href="#">NP_001012071.1</a></u>   |
| <b>RefSeq Size:</b>           | 1415 bp   |
| <b>RefSeq ORF:</b>            | 747 bp  |
| <b>Locus ID:</b>              | 309465  |
| <b>UniProt ID:</b>            | <u><a href="#">Q6AXV9</a></u>   |
| <b>Cytogenetics:</b>          | 1q54  |
| <b>Gene Summary:</b>          | Exhibits glutathione-dependent thiol transferase activity. Has high dehydroascorbate reductase activity and may contribute to the recycling of ascorbic acid. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA).<br>[UniProtKB/Swiss-Prot Function]   |