

## Product datasheet for **MR228763**

### Gsto2 (NM\_030051) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gsto2 (NM\_030051) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gsto2  
**Synonyms:** 1700020F09Rik; 4930425C18Rik; GSTO 2-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228763 representing NM\_030051  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCCGGGGATTTGTCAAGATGCTTGGGAAAAGGAAGCTGTCCCCAGGGCCGGTCCCTGAGGGTGTGA  
TCCGAATCTACAGCATGAGGTTCTGCCCTACTCGCACAGGGCACGCCTGGTTCTCAAGGCCAAAGGCAT  
CAGGCATGAAGTGATCAATATTAACCTGAAAAGCAAGCCTGACTGGTACTATAACAAGCATCCTTTTGGC  
CAAATTCCTGTCTTGGAGAACAGCCAGTGTGAGCTGGTCTATGAATCTGTATTGCTTGTGAGTACTGG  
ATGACGTCTACCCGGAAGAAAGCTGTTCCGTATGACCCGTATGAACGAGCTCGCCAGAAGATGTTATT  
GGAGCTATTCTGTAAGGTCCCGCCTTAAAGCAAGGAATGTCTGATAGCGCTGAGATGCGGAAGAGACTGT  
ACGGATCTGAAGGTGCGCCTGCGTCAGGAGTTGTGCAACATGGAAGAGATTCTTGAATATCAGAACACTA  
CCTTCTCGGCGGAGACTGTATATCCATGATTGATTACCTCGTCTGGCCCTGGTTTGAGCGCCTGGACGT  
ATATGGACTGGCTGACTGCGTGAATCACACCCCGATGCTGCGGCTCTGGATAGCCTCCATGAAGCAGGAC  
CCTGCAGTGTGTCTCTGCACACTGATAAGAGCGTCTTCTGGGCTTCTTGAATCTCTATTTCCAAAACA  
ACCTTGTGCCTTGATTTGGGCTGTGTAACCAATCATACGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228763 representing NM\_030051  
 Red=Cloning site Green=Tags(s)

MSGDLSRCLGKGS CPPVPEGVIRIYS MRFCPYSHRARLVLKAKGIRHEVININLKS KPDWYYTKHPFG  
 QIPVLENSQCQLVYESVIACEYLDDVYPGRKLPYDPERARQKMLLELFCKVPPLSKECLIALRCGRDC  
 TDLKVALRQELCNMEEILEYQNTFFGGDCISMIDYLVWPWFERLDVYGLADCVNHTPMLRLWIASMKQD  
 PAVCALHTDKSVFLGFLNLYFQNNPCAFDFGLCNPIIR

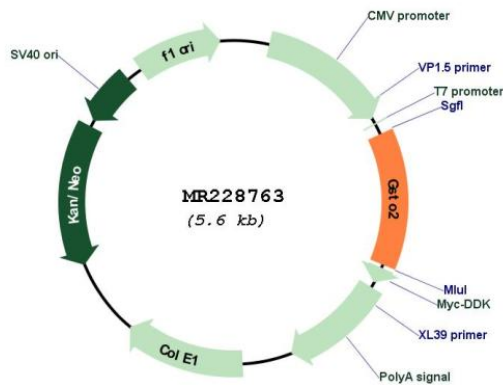
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_030051  
**ORF Size:** 744 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_030051.1</a> , <a href="#">NP_084327.1</a>
<b>RefSeq Size:</b>	1258 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	68214
<b>UniProt ID:</b>	<a href="#">Q8K2Q2</a>
<b>Cytogenetics:</b>	19 D1
<b>MW:</b>	29 kDa
<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). [UniProtKB/Swiss-Prot Function]