

## Product datasheet for **RR207335**

### Gsto2 (NM\_001012071) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gsto2 (NM_001012071) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsto2
Synonyms:	GSTO 2-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207335 representing NM_001012071 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCTGGGGATTTGACAAGATGCTTGGGAAAGGAAGCTGTCCCCAGGGCCGGTCCCTGAGGGTGTGA  
TCCGAATCTACAGCATGAGGTTCTGCCCTACTCGCACAGGACACGCCTGGTCTCAAGGCCAAAAGCAT  
CAGGCATGAAATCATCAACATTAACCTGAAAAACAAGCCTGATTGGTACTATACAAAACACCCCTTTGGC  
CAGGTTTCCTGTCTGGAGAACAGCCAATGTCAGCTGATCTATGAATCCGTCATTGCGTGTGAGTACTGG  
ATGACGCTTCCAGGAAGGAAGCTGTTCCATACGACCCATATGAACGAGCTCGCCAGAAGATGTTATT  
GGAGCTATTCTGTAAGGTCCCACAGTTAAGCAAGGAATGTCTGGTAGCGCTGAGATGTGGGAGAGACTGT  
ACGGATCTGAAGTTGCCCTGCGTCAGGAGTTGTGCAATCTGGAAGAGATTCTTGAATATCAGAACACTA  
CCTTCTCGGTGGAGACTCTATATCCATGATTGATTACCTCGTCTGGCCCTGGTTTGAGCGACTGGATGT  
ATATGGACTGGCTGACTGTGTGAATCACACCCAATGCTGCGGCTCTGGATATCCTCCATGAAGCAGGAC  
CCCGCAGTGTGCGCTCTGCACATTGATAAGAACATTTCTGGGCTTCTTGAATCTCTATTTCCAAAACA  
ACCTTGTGCCTTGATTTGGGCTGTGTGGCCAATCGTACGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR207335 representing NM\_001012071  
 Red=Cloning site Green=Tags(s)

MSGDLTRCLGKGSCTPPVPEGVIRIYSMRFCPYSHRTRLVLKAKSIRHEIININLKNKPDWYYTKHPFG  
 QVPVLENSQCQLIYESVIACEYLDDVFPGRKLPYDPYERARQKMLELFCCKVPQLSKECLVALRCGRDC  
 TDLKVALRQELCNLEEILEYQNTFFGGDISMIDYLVWPWFERLDVYGLADCVNHTPMLRLWISSMKQD  
 PAVCALHIDKNIFLGFLNLYFQNNPCAFDFGLCGPIVR

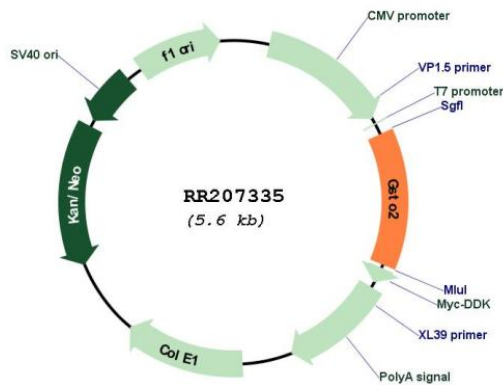
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001012071  
**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_001012071.1</a> , <a href="#">NP_001012071.1</a>
<b>RefSeq Size:</b>	1415 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	309465
<b>UniProt ID:</b>	<a href="#">Q6AXV9</a>
<b>Cytogenetics:</b>	1q54
<b>MW:</b>	28.7 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]