

## Product datasheet for MR228587

### Gsta3 (NM\_010356) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gsta3 (NM_010356) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsta3
Synonyms:	Gst2-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228587 representing NM_010356 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGGAAGCCAGTCCTTCATTACTTTGATGGCAGGGGAAGAATGGAGCCTATCCGGTGGCTCTTGG  
CTGCAGCTGGTGTGGAGTTTGAAGAAAAATTTCTGAAACTCGGGATGACCTGGCAAGGTTACGAAGTGA  
TGGGAGTCTGATGTTCCAGCAAGTGCCCATGGTAGAGATCGACGGGATGAACTGGTGCAGACCAAAGCC  
ATTCTCAACTACATTGCCTCAAATACAACCTCTATGGGAAGGACATGAAGGAGAGGCCATCATTGACA  
TGTACACAGAAGGAGTGGCGGATCTGGAGATAATGATTCTCTATTACCCACATGCCCCCTGAGGAGAA  
AGAGGCAAGCCTTGCCAAGATCAAGGAACAACCAGGAACCGTTACTTCCCTGCCTTTGAAAAGGTGTTG  
AAGAGCCATGGACAAGATTATCTCGTTGGCAACAGGCTGAGCAGGGCTGATATTGCCCTGGTTGAACTCC  
TCTACCATGTGGAAGAGCTGGACCCGGCGTGTGGACAACCTTCCCTCTCCTGAAAGCGCTGAGAAGCAG  
AGTCAGCAACCTCCACAGTGAAGAAGTTTCTCAACCTGGCAGCCAGAGGAAGCCTTTTGATGACGCA  
AAATGTGTTGAGTCAGCAAAGAAGATTTTCAGT

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228587 representing NM\_010356  
Red=Cloning site Green=Tags(s)

MAGKPVLYHYFDGRGRMEPIRWLLAAAGVEFEKFLKTRDDLARLRSDGSLMFQQVPMVEIDGMKLVQTKA  
 ILNYIASKYNLYGKDMKERAIIDMYTEGVADLEIMILYYPHPPEEKEASLAKIKEQTRNRYFPAFEKVL  
 KSHGQDYL VGNRLSRADIALVELLYHVEELDPGVVDNFP LLKALRSRVSNLPTVKKFLQPGSQRKPFDDA  
 KCVESAKKIFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010356

**ORF Size:** 663 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\\_010356.4](#), [NP\\_034486.2](#)

**RefSeq Size:** 1375 bp

**RefSeq ORF:** 666 bp

**Locus ID:** 14859

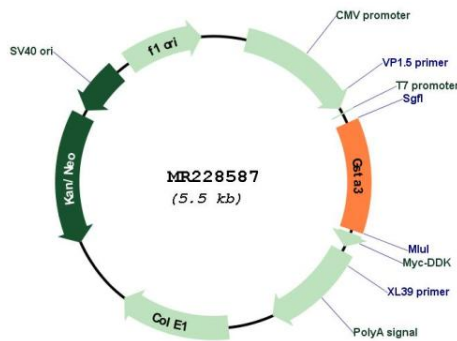
**UniProt ID:** [P30115](#)

**Cytogenetics:** 1 6.5 cM

**MW:** 25.4 kDa

**Gene Summary:** Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. This GST has a high catalytic activity for aflatoxin B1-8,9 epoxide. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR228587