

## Product datasheet for MR201150

### Mgst1 (NM\_019946) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mgst1 (NM\_019946) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mgst1  
**Synonyms:** 150002K10Rik; Gst  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201150 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCGACCTCAGGCAGCTCATGGACAATGAGGTGTTGATGGCCTTTACCTCCTATGCAACGATCATT  
 TTACCAAGATGATGTTTCATGAGCTCTGCGACCGCATTCCAGAGGATAACCAACAAGGTTTTTGGCAACCC  
 AGAAGACTGCGCTGGCTTTGGCAAGGTAGAGAATGCCAAGAAATTTGTTGCGACTGACGAGAAGGTGGAA  
 CGCGTGCGCAGAGCCACCTGAATGATCTTGAAAACATCGTCCCTTTCTCGGCATCGGCCTCCTGTACT  
 CCCTGAGTGGACCAGATCTCTACAGCCCTCATGCACCTCAGAATCTTTGTAGGTGCTCGGATCTACCA  
 CACCATTGCTTACTTGACTCCCTTCTCAGCCAAACAGGGGCTTGGCATTTTTTGTTGGCTATGGAGTT  
 ACTTTGTCAATGGCTTACAGGCTGCTAAGGAGCAGACTGTACTTG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

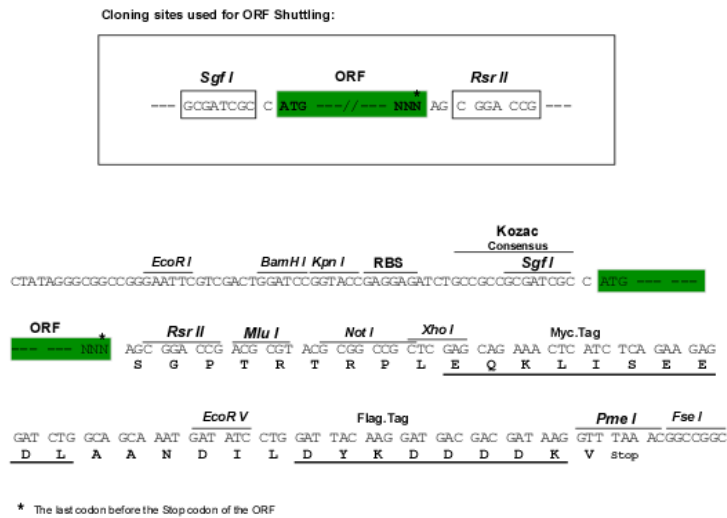
**Protein Sequence:** >MR201150 protein sequence  
 Red=Cloning site Green=Tags(s)

MADLRQLMDNEVLMAFTSYATIILTKMMFMSSATAFQRITNKVFANPEDCAGFGKVENAKKFVRTDEKVE  
 RYRRAHLNDLENIVPFLGIGLLYSLSGPDLSTALMHFRIFVGARITYHTIAYLTPLPQPNRGLAFFVGYGV  
 TLSMAYRLLRSRLYL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-RsrII



**Cloning Scheme:**


**ACCN:** NM\_019946

**ORF Size:** 468 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\\_019946.1](#), [NM\\_019946.2](#), [NM\\_019946.3](#), [NM\\_019946.4](#), [NP\\_064330.2](#)

**RefSeq Size:** 943 bp

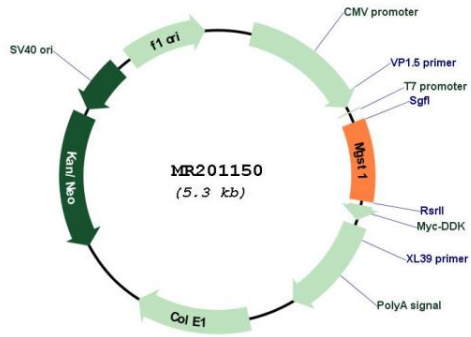
**RefSeq ORF:** 468 bp

**Locus ID:** 56615

**UniProt ID:** [Q91VS7](#)

**Cytogenetics:** 6 G1  
**MW:** 17.6 kDa  
**Gene Summary:** Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201150