

## Product datasheet for **RN212142**

### Gss (NM\_012962) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gss (NM_012962) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gss
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212142 representing NM\_012962  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCACCAGCTGGGAAGCATCTTGACAGATGAGAAGCAGCTGGAAGAGTTGGCACAGCAGGCCATAG  
 ACCGGGCCCTGGCTGAGGGGGTGTGCTGAGGTCGCAAAGAACCCAGCTCCTCTGACGTGGTGACGTA  
 TGCCCCATTACGCTCTTCCCCTCACCAGTGCCAGCACTCTGCTGGAGCAGGCCTATGCTGTGCAGATG  
 GACTTCAACATCCTGGTAGATGCTGTCAGCCAGAACTCCGCTTCTGGAGCAAACACTGTCTAGCACCA  
 TCAAAAAGGATGAGTATACTGCCGCTCTTTGATATCTACAAGCAAGTCTGAAAGAGGGCATAGCCCA  
 GACTGTGTTCTGGGCTCAATCGTTCAGATTACATGTTCCAGTGCAGCGCAGACGGCTCCAAGCCCTG  
 AAACAGATTGAGATCAACACTATCTCTGCCAGCTTTGGGGCCTGGCCTCCCGGACTCCGGCTGTGCACC  
 GACATGTTCTCAATGTCCTGAATAAGACCAACGAAGCTTCCAAGATCCTGTCCAACAACCCAGCAAGGG  
 ACTGGCCCTGGGATCGCAAAGCCTGGGAGCTCTATGGCTCAGCCAATGCCGTGGTGTACTGATTGCT  
 CAGGAGAAGGAAAGGAACATATTTGACCAGCGTGCCATAGAGAACGAGCTGCTAGACAGGAAGATCCATG  
 TAATCCGCCGAAGATTTGAAGATGTCTCTGAAAGGGTCTCTAGACCAAACCGAAGGCTGTTTATGGA  
 GGACCAGGAAGTTGCTGTGGTTTACTTCCGAGATGGCTACATGCCAGTCAGTATAACGCACAGAAGTGG  
 GAAGCTCGCTGCTGCTAGAGAGATCATGTGCTGCCAAGTGTCCCACATTGCCACACAGCTGGCTGGCA  
 CTAAGAAGGTGCAGCAGGAAGTGCAGAGGTGGCCTGCTGGAAGCGTGTCCCGGGCCAGCCCGAGGC  
 TGTGGCCCGCTCCGTGCCACCTTTGCTGGCCTTATTACTGGACATGGGTGAAGAAGGGGACCAAGCT  
 GTCGCTGAGGCCCTTGTGCCCTAGCCACTTTGTGCTGAAGCCCAAAGAGAGGGCGGAGGTAATAACT  
 TCTATGGGGAGGAAATGGTACACGCTCTGGAGCAGCTGAAAGACAGCGAGGAGAGAGCCTCTACATCCT  
 CATGGAGAAGATTGAACCTGAGCCTTTTAGGAATTGCTTACTACGGCCTGGCAGCCCTGCCCAAGTGCTC  
 CAGTGCATCTCGAGCTGGGTATTTTTGGAGTCTATGTCAGACAGGGAACAACACTTGTGATGAACAAGC  
 ATGTGGGCATCTGCTTGAACCAAAGCCATTGAACATGCAGATGGAGGTGTGGCAGCAGGAGTGCCAGT  
 CCTGGACAACCCCTACCCTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_012962
- Insert Size:** 1425 bp
- OTI Disclaimer:** 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).
- 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\\_012962.1](#), [NP\\_037094.1](#)  
RefSeq Size: 1882 bp  
RefSeq ORF: 1425 bp  
Locus ID: 25458  
UniProt ID: [P46413](#)  
Cytogenetics: 3q42  
Gene Summary: catalyzes the synthesis of glutathione from gamma-L-glutamyl-L-cysteine and glycine; activity is ATP-dependent [RGD, Feb 2006]