

Product datasheet for **RR212142**

Gss (NM_012962) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR212142 representing NM_012962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCACCAGCTGGGAAGCATCTTGACAGATGAGAAGCAGCTGGAAGAGTTGGCACAGCAGGCCATAG
 ACCGGGCCCTGGCTGAGGGGTGTTGCTGAGGTCCGCAAAGAACCCAGCTCCTCTGACGTGGTGACGTA
 TGCCCCATTACGCTCTTCCCCTCACCAGTGCCAGCACTCTGCTGGAGCAGGCCTATGCTGTGCAGATG
 GACTTCAACATCCTGGTAGATGCTGTCAGCCAGAACTCCGCTTCTGGAGCAAACACTGTCTAGACCA
 TCAAAAAGGATGAGTATACTGCCGCTCTTTGATATCTACAAGCAAGTCTGAAAGAGGGCATAGCCCA
 GACTGTGTTCTGGGCTCAATCGTTCAGATTACATGTTCCAGTGCAGCGCAGACGGCTCCAAGCCCTG
 AAACAGATTGAGATCAACTATCTCTGCCAGCTTTGGGGCCTGGCCTCCCGACTCCGGCTGTGCACC
 GACATGTTCTCAATGCTGAATAAGACCAACGAAGTCCAAGATCCTGTCCAACAACCCAGCAAGGG
 ACTGGCCCTGGGATCGCAAAGCCTGGGAGCTCTATGGCTCAGCCAATGCCGTGGTGTACTGATTGCT
 CAGGAGAAGGAAAGGAACATATTTGACCAGCGTCCATAGAGAACGAGCTGCTAGACAGGAAGATCCATG
 TAATCCGCCGAAGATTTGAAGATGTCTCTGAAAGGGTCTCTAGACCAAACCGAAGGCTGTTTATGGA
 GGACCAGGAAGTTGCTGTGGTTTACTTCCGAGATGGCTACATGCCAGTCAGTATAACGCACAGAAGTGG
 GAAGCTCGCTGCTGCTAGAGAGATCATGTGCTGCCAAGTGTCCCAGACTTCCACACAGCTGGCTGGCA
 CTAAGAAGGTGCAGCAGGAAGTGCAGGGTGGCCTGCTGGAAGCGTGTCCCAGGAGCCGAGCCGAGGC
 TGTGGCCCGCTCCGTGCCACCTTTGCTGGCCTTATTCACTGGACATGGGTGAAGAAGGGGACAGGCT
 GTCGCTGAGGCCCTTGTGCCCTAGCCACTTTGTGCTGAAGCCCAAAGAGAGGGCGGAGGTAATAACT
 TCTATGGGAGGAAATGGTACACGCTCTGGAGCAGCTGAAAGACAGCGAGGAGAGAGCTCCTACATCCT
 CATGGAGAAGATTGAACCTGAGCCTTTTAGGAATTGCTTACTACGGCCTGGCAGCCCTGCCCAAGTGGTC
 CAGTGCATCTCGAGCTGGGTATTTTTGGAGTCTATGTCAGACAGGGAACAACACTTGTGATGAACAAGC
 ATGTGGGCATCTGCTTGAACCAAAGCCATTGAACATGCAGATGGAGGTGTGGCAGCAGGAGTGGCAGT
 CCTGGACAACCCCTACCCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212142 representing NM_012962
 Red=Cloning site Green=Tags(s)

MATSWGSIHQDEKQLEELAQQAIDRALAEGVLLRSKPNSSDVVITYAPFTLFPSPVPSTLLEQAYAVQM
 DFNILVDAVSQNSAFLEQTLSSITKKDEYARLFDIYKQVLKEGIAQTVFLGLNRSYMFQCSADGSKAL
 KQIEINTISASFGLASRTPAVHRHVLNVLNKTNEASKILSNNPSKGLALGIAKAWELYGSANAVLLIA
 QEKERNIFDQRAIENELLDRKIHVIRRRFEDVSEKSLDQNRRLFMEDQEVAVVYFRDGYMPSQYNAQNW
 EARLLERSCAAKCPDIATQLAGTKKVQELSRVGLLEALLPGQPEAVARLRATFAGLYSLDMGEEGDQA
 VAEALAAPSHFVLPKQREGGNNFYGEEMVHALEQLKDSEERASYILMEKIEPEPFRNCLLRPGSPAQVV
 QCISELGIQVYVRQGTTLVMNKHVGHLLRKAIEHADGGVAAGVAVLDNPPYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

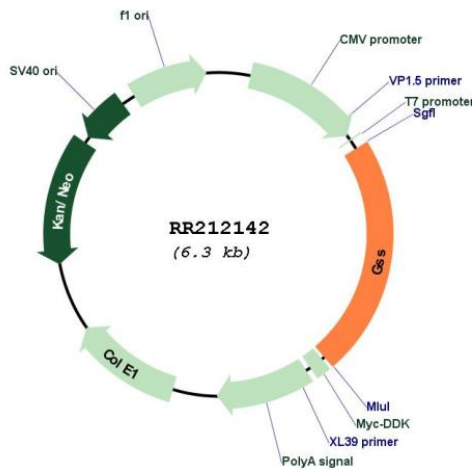
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012962

ORF Size: 1422 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_012962.1](#), [NP_037094.1](#)

RefSeq Size: 1882 bp

RefSeq ORF: 1425 bp

Locus ID: 25458

UniProt ID: [P46413](#)

Cytogenetics: 3q42

MW: 52.3 kDa

Gene Summary: catalyzes the synthesis of glutathione from gamma-L-glutamyl-L-cysteine and glycine; activity is ATP-dependent [RGD, Feb 2006]