

Product datasheet for **RR214415**

Gsr (NM_053906) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gsr (NM_053906) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gsr
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214415 representing NM_053906
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC**GGCGC**
GCCC

ATGTGGAACACAGCCGTGCACTCGGAATTCATACATGATCACGTGGATTACGGCTTTCAAACACTGCAAGA
GTAATTCATTGGCATGTCATCAAGGAGAAGCGGGATGCTTACGTGAGCCGCCTGAACAACATCTACCA
AAACAATTTAACCAAGTCCACATCGAAGTCATCCACGGCTACGCAACATTTGCAGATGGTCCCCAGCCC
ACAGTGGAAAGTCAACGGGAAAAAGTTCCTGCTCCACACATCCTGATCGCCACGGGTGGTGTGCCACGG
TTCTCATGAGAACCAGATCCCAGGTGCCAGCCTGGGGATAACCAAGTGTGGGTTCTTTAGCTGGAAGA
CTTGCCAGCCGACGCTTATTGTGGTGCCGGTTACATTGCCGTGGAGATTGCGGGCATCCTCTCCGCC
CTGGGCTCCAAGACGTCTCTTATGATCAGGCATGATAAGGTGCTTAGAAGCTTTGATTCACTCATCAGTT
CCAAGTGCACCGAGGAGCTGGAGAACGCTGGCGTGGAGGTGTTGAAGTTCTCACAGGTTAAGGAAGTAA
GAAGACCCCATCGGGCTTGGAACTCCATGTGGTACTGCACTTCCCGGTAGGAAACCCACCGTGACCAG
ATTCCAGATGTCGATTGCCTGCTCTGGGCCATTGGACGGGACCCAAATTTAAGGGCCTGAATCTAATA
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CGTCTATGCCGTGGGCGATGTCTGTGGGAAAGCACTTCTCACCCAGTTGCGATCGCTGTGGCCGGAAA
CTCGCCATAGACTTTTTGAGGGCAAAGAAGATTCAGGTTGGACTATGCAACATCCCTACCGTGGTCT
TCAGCCACCCGCCTATCGGGACAGTGGGGCTCACTGAAGATGAAGCCGTCCATAAGTATGGCAAAGACAA
TGTGAAAATCTACTCGACCGCCTTACCCCGATGTATCACGCTGTGACCACGAGGAAGACGAAATGCGTG
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AGATGCTTCAGGGCTTCGCTGTAGCAGTGAAAAATGGGGGCCACCAAGGCCGACTTCGACAATACGGTCCG
CATTATCCTACCTCTTCAGAAGAGCTGGTCACACTGCGC

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ACAAGGATGACGACGATAAGGTTTAA



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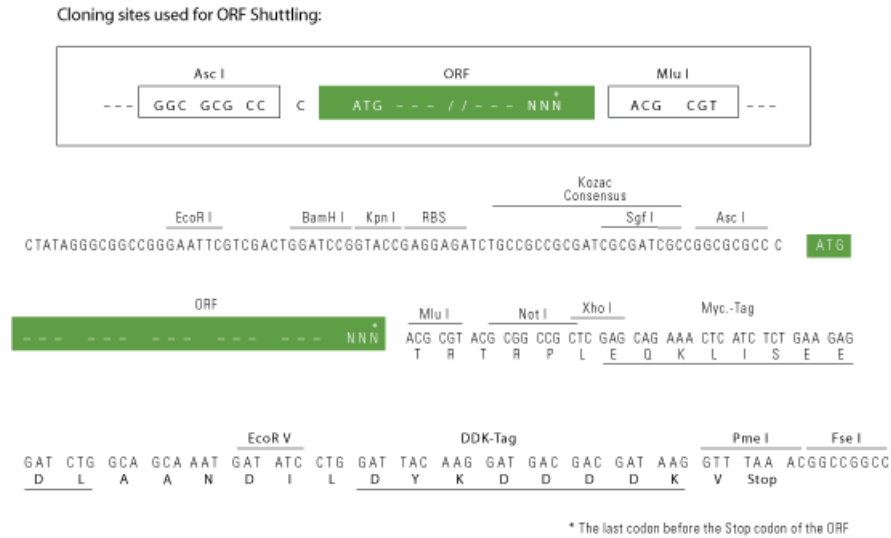
Protein Sequence: >RR214415 representing NM_053906
Red=Cloning site Green=Tags(s)

MWNTAVHSEFIHDHVDYGFQNCCKSFNWHVIKEKRDAYVSRLLNNIYQNNLTKSHIEVIHGATFADGPQP
 TVEVNGKKFTAPHIL IATGGVPTVPHENQIPGASLGITSDGFFQLEDLPSRSVIVGAGYIAVEIAGILSA
 LGSKTSLMIRHDKVLRSFDSL ISSNCTEELNAGVEVLKFSQVKEVKKTPSGLELHVVTALPGRKPTVTT
 IPDVDCLLWAIGRDPNSKGLNLNLKGIQTDDKGHILVDEFQNTNVKGVYAVGDVCGKALLTPVAIAAGRK
 LAHRLFEGKEDSRLDYDNIPTVVF SHPPIGTVGLTEDEAVHVKYGKDNVKIYSTAFTPMYHAVTTRKTKCV
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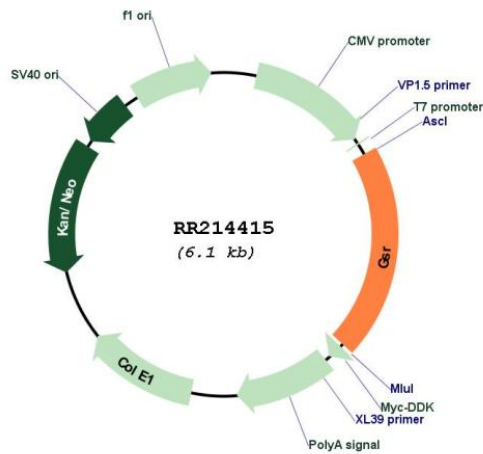
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053906

ORF Size:	1230 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:	<ol style="list-style-type: none">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_053906.2 , NP_446358.2
RefSeq Size:	1850 bp
RefSeq ORF:	1233 bp
Locus ID:	116686
Cytogenetics:	16q12.3
MW:	44.8 kDa
Gene Summary:	catalyzes the conversion of glutathione and NADP+ to glutathione disulfide and NADPH + H+; may play a role in spermatogenesis [RGD, Feb 2006]