

Product datasheet for **RR206410**

Gsta3 (NM_001009920) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsta3 (NM_001009920) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsta3
Synonyms:	Gsta5; Yc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206410 representing NM_001009920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGAAGCCAGTCCTTCACTACTTCGATGGCAGGGGAGAATGGAGCCCATCCGGTGGCTCCTGG
CTGCAGCTGGAGTAGAGTTTGAAGAAAATTTCTGAAAACCTCGGGATGACCTGGCCAGGTTAAGAAGTGA
TGGGAGTTTGATGTTTGAACAAGTGCCCATGGTGGAGATTGACGGGATGAAGCTGGTGCAGACCAAAGCC
ATTCTCAACTACATTGCCACAAATACAACCTCTATGGGAAGGACATGAAGGAGAGAGCCCTCATCGACA
TGTATGCAGAAGGTGTGGCCGATCTGGAGTTGATGGTTCTCTATTACCCCTACATGCCCCCTGGGGAGAA
AGAGGCGAGTCTTGCCAAGATCAAGGACAAAGCAAGGAACCGTTACTTCCCTGCCTATGAGAAGGTGTTG
AAGAGCCACGGACAAGATTATCTCGTTGGCAACAAGCTGAGCAGGGCTGATGTTTCCCTGGTTGAACTTC
TCTACCATGTGGAAGAGATGGACCCAGGCATTGTGGACAACCTCCCTCTGCTAAAGGCCCTGAGAACCAG
AGTCAGCAACCTCCACAGTGAAGAAAATTTCTCAGCCTGGCAGCCAGAGGAAGCCTTTTGATGATGAG
AAATGTGTAGAATCAGCGAAGAAGATCTTCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206410 representing NM_001009920
 Red=Cloning site Green=Tags(s)

MPGKPVLYHYFDGRGRMEPIRWLLAAAGVEFEENFLKTRDDLARLRSDGSLMFEQVPMVEIDGMKLVQTKA
 ILNYIATKYNLYGKDMKERALIDMYAEGVADLEMLVLYYPMPPEKEASLAKIKDKARNRYFPAYEKVL
 KSHGQDYLVGKLSRADVSLVELLYHVEEMDPGI VDNFPLLKALRTRVSNLPTVKKFLQPGSQRKPFDD
 KCVESAKKIFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

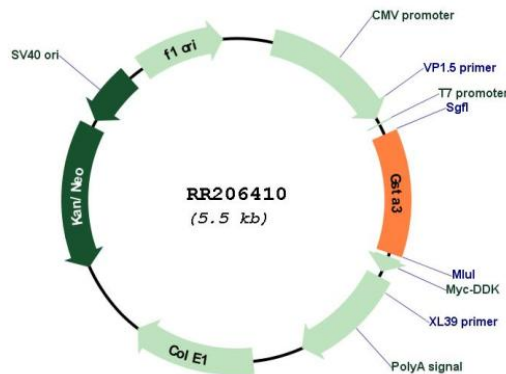
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001009920

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:	<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_001009920.2 , NP_001009920.1
RefSeq Size:	1508 bp
RefSeq ORF:	666 bp
Locus ID:	494500
UniProt ID:	P46418
Cytogenetics:	9q13
MW:	25.3 kDa
Gene Summary:	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has substantial activity toward aflatoxin B1-8,9-epoxide. [UniProtKB/Swiss-Prot Function]