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Product datasheet for RR201205

Gsta4 (NM_001106840) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsta4 (NM_001106840) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsta4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RR201205 representing NM_001106840
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGTCAAACCCAAGCTCTACTACTTTCAAGGCAGGGGAAGGATGGAGTCGATCCGCTGGCTGCTGG
CTACAGCTGGAGTGGAGTTTGAAGAAGAATTTCTTGAGACGAGAGAACAATATGAGAAGTTGCAAAAGGA
TGGATGCCTGCTTTTTGGCCAAGTCCCATTGGTGGAAATAGACGGGATGCTACTGACACAGACCAGAGCC
ATCCTCAGCTACCTGGCCGCCAAGTACAACTTGTATGGGAAGGACCTGAAGGAGAGAGTCAGGATTGACA
TGTATGCCGATGGCACCCAGGACCTGATGATGATGATTATCGGGGCTCCATTTAAAGCCCCTCAGGAAAA
AGAAGAGAGCCTAGCTTTAGCAGTGAAGAGGGCTAAAAACCGTTACTTCCCAGTGTTTGAAAAGATTTTA
AAAGACCATGGAGAGGCATTTCTTGTTGGCAACCAACTCAGTTGGGCAGACATACAGCTACTAGAAGCCA
TTTTGATGGTGGAAGAAGTCAGTGCTCCTGTGTTGTCTGACTTCCCTCTGCTGCAGGCATTTAAGACAAG
AATCAGCAACATTCCTACAATTAAGAAGTTCCTGCAACCTGGAAGTCAGAGGAAGCCACCTCCGGATGGC
CACTATGTTGACGTGGTCAGGACCGTCCTGAAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

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>RR201205 representing NM_001106840
Red=Cloning site Green=Tags(s)

MEVKPKLYYFQGRGRMESIRWLLATAGVEFEEEFLETREQYEKLQKDGCLLFGQVPLVEIDGMLLTQTRA
ILSYLAAKYNLYGKDLKERVRIDMYADGTQDLMMMIIGAPFKAPQEKEESLALAVKRAKNRYFPVFEKIL
KDHGEAFLVGNQLSWADIQLLEAILMVEEVSAPVLSDFPLLQAFKTRISNIPTIKKFLQPGSQRKPPPDG
HYVDVVRTVLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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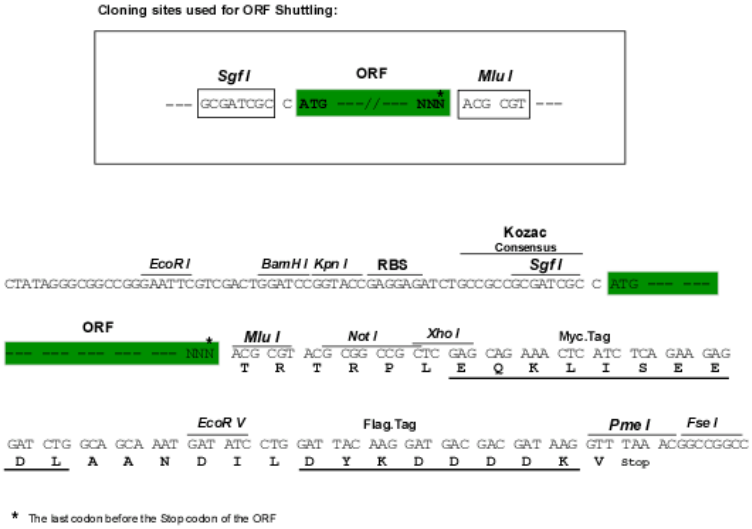
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001106840

ORF Size: 666 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_001106840.1, NP_001100310.1

RefSeq Size: 898 bp

RefSeq ORF: 669 bp

Locus ID: 300850

UniProt ID: P14942

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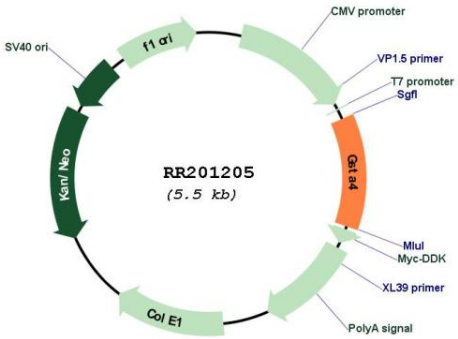
Cytogenetics: 8q31

MW: 25.5 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 RR201205

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