

Product datasheet for MR203133

Gsto2 (NM_026619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsto2 (NM_026619) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsto2
Synonyms:	1700020F09Rik; 4930425C18Rik; GSTO 2-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203133 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGAGATTTGTCAAGATGCTTGGGAAAAGGAAGCTGTCCCCAGGGCCGGTCCCTGAGGGTGTGA
TCCGAATCTACAGCATGAGGTTCTGCCCTACTCGCACAGGGCACGCCTGGTTCTCAAGGCCAAAGGCAT
CAGGCATGAAGTGATCAATATTAACCTGAAAAGCAAGCCTGACTGGTACTATACAAAGCATCCTTTTGGC
CAAATTCCTGTCTTGGAGAACAGCCAGTGTGAGCTGGTCTATGAATCTGTCATTGCTTGTGAGTACCTGG
ATGACGTCTACCCGGGAAGAAAGCTGTTTCCGTATGACCCGTATGAACGAGCTCGCCAGAAGATGTTATT
GGAGCTATTCTGTAAGGTCCCGCCTTTAAGCAAGGAATGTCTGATAGCGCTGAGATGCGGAAGAGACTGT
ACGGATCTGAAGGTCGCCCTGCGTCAGGAGTTGTGCAACATGGAAGAGATTCTTGAATATCAGAACACTA
CCTTCTTCGGCGGAGACTGTATATCCATGATTGATTACCTCGTCTGGCCCTGGTTTGAGCGCCTGGACGT
ATATGGACTGGCTGACTGCGTGAATCACACCCCGATGCTGCGGCTCTGGATAGCCTCCATGAAGCAGGAC
CCTGCAGTGTGTGCTCTGCACACTGATAAGAGCGTCTTCTGGGCTTCTTGAATCTCTATTTCCAAAACA
ACCCTTGTGCCTTTGATTTTGGGCTGTGTAACCAATCATACGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203133 protein sequence
Red=Cloning site Green=Tags(s)

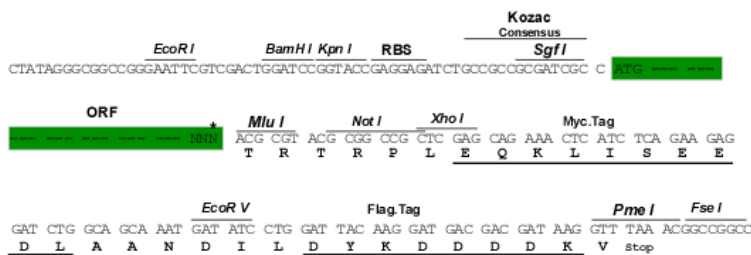
MSGDLSRCLGKGSPPVPEGVIRIYSRMRFCPYSHRARLVLKAKGIRHEVININLKS KPDWYYTKHPFG
 QIPVLENSQCQLVYESVIACEYLDDVYPGRKLFYDYPYERARQKMLLELFCKVPPLSKECLIALRCGRDC
 TDLKVALRQELCNMEEILEYQNTTFFGGDCISMIDYLVWPWFERLDVYGLADCVNHTPMLRLWIASKMQD
 PAVCALHTDKSVFLGFLNLYFQNNPCAFDFGLCNPIIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026619

ORF Size: 747 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_026619.1](#), [NM_026619.2](#), [NP_080895.1](#), [NP_080895.2](#)

RefSeq Size: 1305 bp

RefSeq ORF: 747 bp

Locus ID: 68214

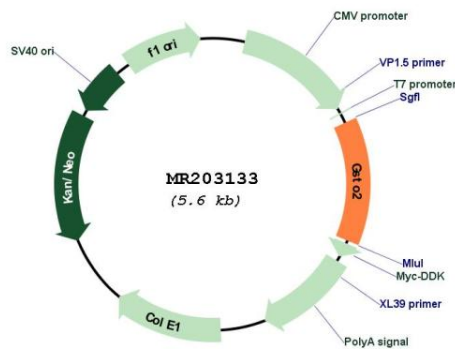
UniProt ID: [Q8K2Q2](#)

Cytogenetics: 19 D1

MW: 28.6 kDa

Gene Summary: Exhibits glutathione-dependent thiol transferase activity. Has high dehydroascorbate reductase activity and may contribute to the recycling of ascorbic acid. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203133