OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG203133

Gsto2 (NM_026619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsto2 (NM_026619) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gsto2
Synonyms:	1700020F09Rik; 4930425C18Rik; GSTO 2-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203133 representing NM_026619
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGGAGATTTGTCAAGATGCTTGGGAAAAGGAAGCTGTCCCCCAGGGCCGGTCCCTGAGGGTGTGA
TCCGAATCTACAGCATGAGGTTCTGCCCCTACTCGCACAGGGCACGCCTGGTTCTCAAGGCCAAAGGCAT
CAGGCATGAAGTGATCAATATTAACCTGAAAAGCAAGCCTGACTGGTACTATACAAAGCATCCTTTTGGC
CAAATTCCTGTCTTGGAGAACAGCCAGTGTCAGCTGGTCTATGAATCTGTCATTGCTTGTGAGTACCTGG
ATGACGTCTACCCGGGAAGAAAGCTGTTTCCGTATGACCCGTATGAACGAGCTCGCCAGAAGATGTTATT
GGAGCTATTCTGTAAGGTCCCGCCTTTAAGCAAGGAATGTCTGATAGCGCTGAGATGCGGAAGAGACTGT
ACGGATCTGAAGGTCGCCCTGCGTCAGGAGTTGTGCAACATGGAAGAGATTCTTGAATATCAGAACACTA
CCTTCTTCGGCGGAGACTGTATATCCATGATTGATTACCTCGTCTGGCCCTGGTTTGAGCGCCTGGACGT
ATATGGACTGGCTGACTGCGTGAATCACACCCCGATGCTGCGGCTCTGGATAGCCTCCATGAAGCAGGAC
CCTGCAGTGTGTGCTCTGCACACTGATAAGAGCGTCTTCCTGGGCTTCTTGAATCTCTATTTCCAAAACA
ACCCTTGTGCCTTTGATTTTGGGCTGTGTAACCCAATCATACGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

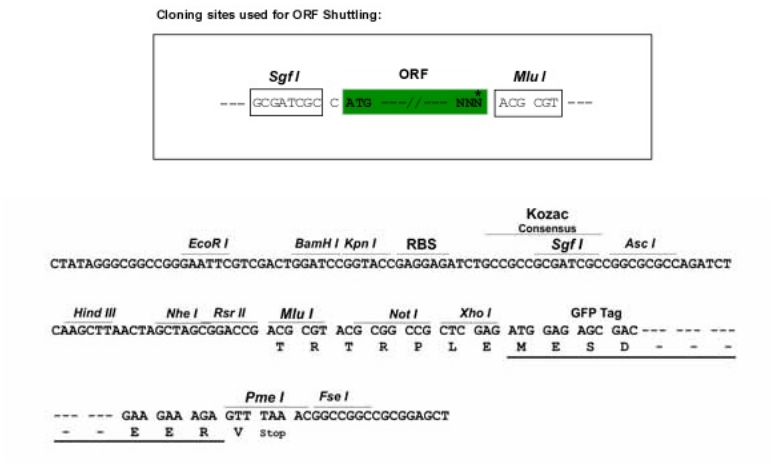
>MG203133 representing NM_026619
Red=Cloning site Green=Tags(s)

MSGDLSRCLGKGSCPPGPVPEGVIRIYSMRFCPYSHRARLVLKAKGIRHEVININLKSKPDWYYTKHPFG
QIPVLENSQCQLVYESVIACEYLDDVYPGRKLFPYDPYERARQKMLLELFCKVPPLSKECLIALRCGRDC
TDLKVALRQELCNMEEILEYQNTTFFGGDCISMIDYLVWPWFERLDVYGLADCVNHTPMLRLWIASMKQD
PAVCALHTDKSVFLGFLNLYFQNNPCAFDFGLCNPIIR

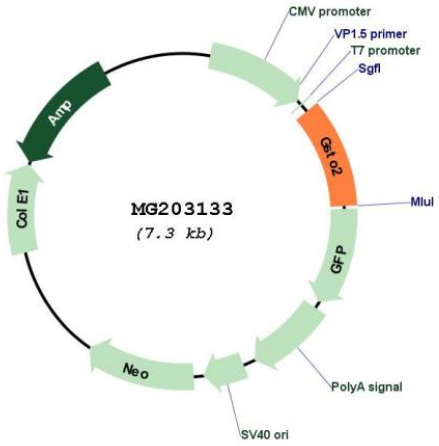
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026619

ORF Size: 744 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, NP_080895.1
RefSeq Size:	1297 bp
RefSeq ORF:	747 bp
Locus ID:	68214
UniProt ID:	Q8K2Q2
Cytogenetics:	19 D1
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]