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Product datasheet for RC203173

MGST2 (NM_002413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGST2 (NM_002413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGST2
Synonyms:	GST2; MGST-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203173 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGGAACTCGATCCTGCTGGCTGCTGTCTCTATTCTCTCGGCCTGTCAGCAAAGTTATTTTGCTT
TGCAAGTTGGAAAGGCAAGATTAAAATACAAAGTTACGCCCCCAGCAGTCACTGGGTCACCAGAGTTTGA
GAGAGTATTTCGGGCACAACAAAACTGTGTGGAGTTTTATCCTATATTCATAATTACATTGTGGATGGCT
GGGTGGTATTTCAACCAAGTTTTTGCTACTTGTCTGGGTCTGGTGTACATATATGGCCGTCACCTATACT
TCTGGGGATATTCAGAAGCTGCTAAAAAACGGATCACCGGTTTCCGACTGAGTCTGGGGATTTTGGCCTT
GTTGACCCTCCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTCAATATTGCC
AAGAAACTGAGGCGGCAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203173 protein sequence
Red=Cloning site Green=Tags(s)

MAGNSILLAAVSILSACQQSYFALQVGKARLKYKVTPPAVTGSPEFERVFRAQQNCVEFYPIFIITLWMA
GWYFNQVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRLSLGILALLTLLGALGIANSFLDEYLDLNIA
KKLRRQF

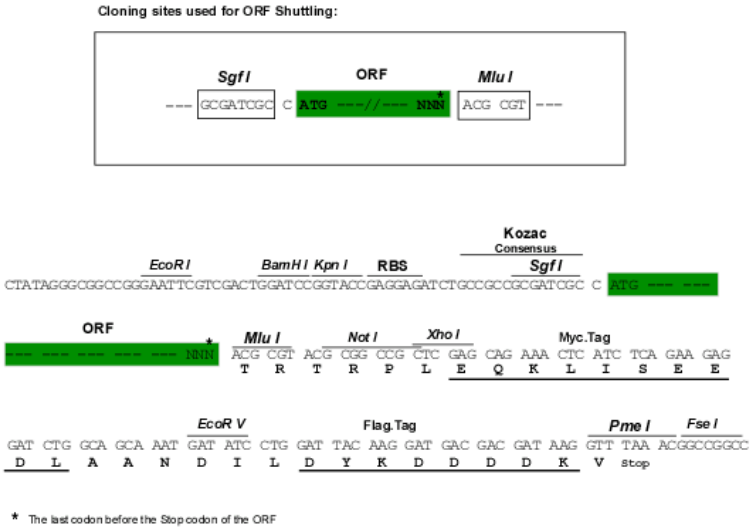
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6064_e05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002413

ORF Size: 441 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_002413.5

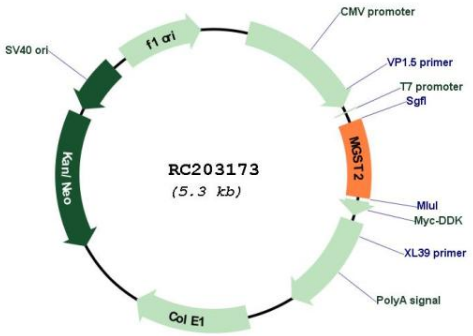
RefSeq Size: 817 bp

RefSeq ORF: 444 bp

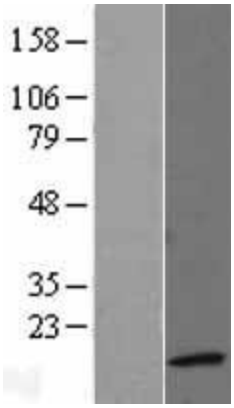
Locus ID: 4258

UniProt ID:	Q99735
Cytogenetics:	4q31.1
Domains:	MAPEG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	16.6 kDa
Gene Summary:	The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, several of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. This gene encodes a protein which catalyzes the conjugation of leukotriene A4 and reduced glutathione to produce leukotriene C4. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC203173



Western blot validation of overexpression lysate (Cat# [LY400862]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203173 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).