

Product datasheet for **RG235498**

MGST2 (NM_001204367) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MGST2 (NM_001204367) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MGST2
Synonyms: GST2; MGST-II
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235498 representing NM_001204367.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGGGTGGTATTTCAACCAAGTTTTTGTACTTGTCTGGGTCTGGTGTACATATATGGCCGTCAC
CTATACTTCTGGGATATTCAGAAGCTGCTAAAAACGGATCACCGGTTCCGACTGAGTCTGGGGATT
TTGGCCTGTTGACCCTCCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTC
AATATTGCCAAGAAACTGAGGCGCAATTC
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC

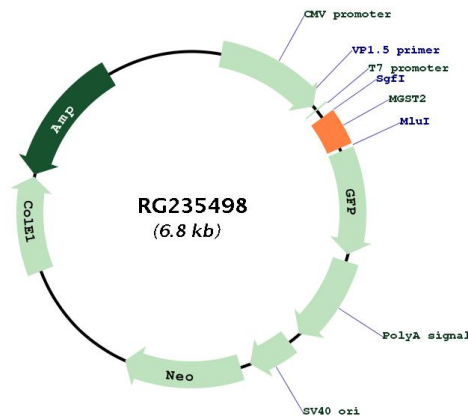
Protein Sequence: >Peptide sequence encoded by RG235498
Blue=ORF Red=Cloning site Green=Tag(s)

MAGWYFNQVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRLSLGILALLTLLGALGIANSFLDEYLDL
NIAKKLRRQF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001204367

ORF Size: 237 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).
RefSeq:	NM_001204367.1 , NP_001191296.1
RefSeq Size:	1178 bp
RefSeq ORF:	240 bp
Locus ID:	4258
Cytogenetics:	4q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	9.5 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]