

Product datasheet for RC203290

MGST3 (NM_004528) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MGST3 (NM_004528) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGST3
Synonyms:	GST-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC203290 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGTCCTCTCTAAGGAATATGGTTTTGTGCTTCTAACTGGTGCTGCCAGCTTTATAATGGTGGCCC ACCTAGCCATCAATGTTTCCAAGGCCCGCAAGAAGTACAAAGTGGAGTATCCTATCATGTACAGCACGGA CCCTGAAAATGGGCACATCTTCAACTGCATTCAGCGAGCCCACCAGAACACGTTGGAAGTGTATCCTCCC TTCTTATTTTTTCTAGCTGTGGAGGTGTTTACCACCCGCGTATAGCTTCTGGCCTGGGCTTGGCCTGGA TTGTTGGACGAGTTCTTTATGCTTACGGCTATTACACGGGAGAACCCAGCAAGCGTAGTCGAGGAGCCCT GGGGTCCATCGCCTCCTGGGCTTGGTGGGCACAACTGTGTGCCTCTGCTTTCCAGCATCTTGGTTGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC203290 protein sequence <mark>Red=</mark> Cloning site Green=Tags(s)
	MAVLSKEYGFVLLTGAASFIMVAHLAINVSKARKKYKVEYPIMYSTDPENGHIFNCIQRAHQNTLEVYPP FLFFLAVGGVYHPRIASGLGLAWIVGRVLYAYGYYTGEPSKRSRGALGSIALLGLVGTTVCSAFQHLGWV KSGLGSGPKCCH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6417_d09.zip



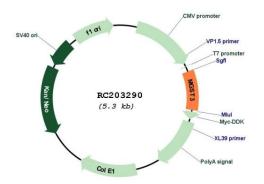
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	3 (NM_004528) Human Tagged ORF Clone – RC203290
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCGATOGC C ATG NNN ACG CGT
	$\frac{Kozac}{Consensus}$ $EcoRI \qquad BamHI Kpn I \qquad RBS \qquad SgfI$ CTATAGGGGGGGGGAATTCGTCGACTGGATGGGAGATCTGCCGCGGGAGTCGGCGCGGATGC C RTG
	EcoR V Flag.Tag Pme i Fse i GAT CTG GCA ACA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAC GAT AAG GTT TAA ACGGCCGGGCC D L A N D I L D Y K D D K V stop
	* The last codon before the Stop codon of the ORF
ACCN:	NM_004528
ORF Size:	456 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. <u>More info</u>
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 Methoo	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 004528.4</u>
RefSeq Size:	1528 bp
RefSeq ORF:	459 bp
Locus ID:	4259

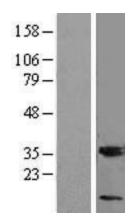
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	(NM_004528) Human Tagged ORF Clone – RC203290
UniProt ID:	<u>014880</u>
Cytogenetics:	1q24.1
Domains:	MAPEG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	16.5 kDa
Gene Summary:	This gene encodes a member of the MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) protein family. Members of this family are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. This gene encodes an enzyme which catalyzes the conjugation of leukotriene A4 and reduced glutathione to produce leukotriene C4. This enzyme also demonstrates glutathione- dependent peroxidase activity towards lipid hydroperoxides.[provided by RefSeq, May 2011]

Product images:



Circular map for RC203290



Western blot validation of overexpression lysate (Cat# [LY417903]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203290 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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