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Product datasheet for RC231054

GSTO2 (NM_001191013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSTO2 (NM_001191013) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GSTO2
Synonyms:	bA127L20.1; GSTO 2-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC231054 representing NM_001191013
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGGGATGCGACCAGGACCCTGGGGAAAGGAAGCCAGCCCCCAGGGCCAGTCCCGGAGGGGCTGA
TCCGCATCTACAGCATGAGGTTCTGCCCCTATTCTCACAGGACCCGCCTCGTCCTCAAGGCCAAAGACAT
CAGACATGAAGTGGTCAACATTAACCTGAGAAACAAGCCTGAATGGTACTATACAAAGCACCCTTTTGGC
CACATTCCTGTCCTGGAGACCAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGG
ATGATGCTTATCCAGGAAGGAAGCTGTTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATT
GGAGCTATTTTGTAAGATTCTTGAGTATCAGAACACCACCTTCTTTGGTGGAACCTGTATATCCATGATT
GATTACCTCCTCTGGCCCTGGTTTGAGCGGCTGGATGTGTATGGGATACTGGACTGTGTGAGCCACACGC
CAGCCCTGCGGCTCTGGATATCAGCCATGAAGTGGGACCCCACAGTCTGTGCTCTTCTCATGGATAAGAG
CATTTTCCAGGGCTTCTTGAATCTCTATTTTCAGAACAACCCTAATGCCTTTGACTTTGGGCTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231054 representing NM_001191013
Red=Cloning site Green=Tags(s)

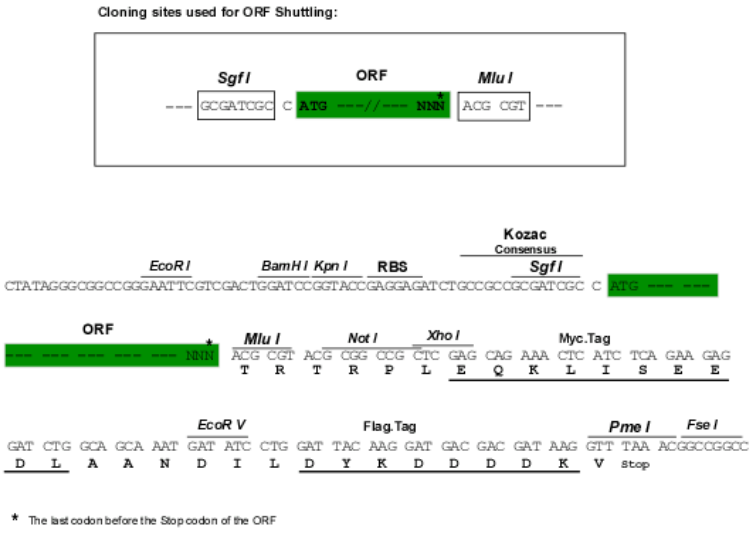
MSGDATRTLGKGSQPPGPVPEGLIRIYSMRFCPYSHRTRLVLKAKDIRHEVVNINLRNKPEWYYTKHPFG
HIPVLETSQCQLIYESVIACEYLDDAYPGRKLFPYDPYERARQKMLLELFCKILEYQNTTFFGGTCISMI
DYLLWPWFERLDVYGILDCVSHTPALRLWISAMKWDPTVCALLMDKSIFQGFLNLYFQNNPNAFDFGLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001191013

ORF Size: 627 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_001191013.1, NP_001177942.1

RefSeq ORF: 630 bp

Locus ID: 119391

UniProt ID: Q9H4Y5

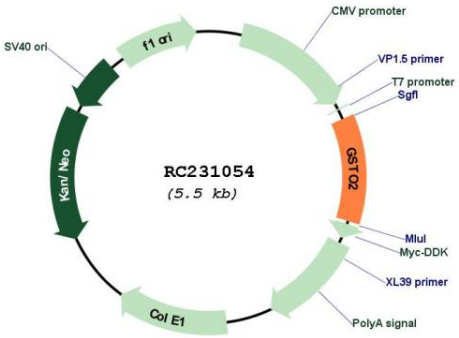
Cytogenetics: 10q25.1

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

MW: 24.8 kDa

Gene Summary: The protein encoded by this gene is an omega class glutathione S-transferase (GST). GSTs are involved in the metabolism of xenobiotics and carcinogens. Four transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]

Product images:



Circular map for RC231054