

Product datasheet for **RG231054**

GSTO2 (NM_001191013) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GSTO2 (NM_001191013) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GSTO2
Synonyms: bA127L20.1; GSTO 2-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231054 representing NM_001191013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCTGGGGATGCGACCAGGACCTGGGGAAAGGAAGCCAGCCCCAGGGCCAGTCCCGGAGGGGCTGA
 TCCGCATCTACAGCATGAGGTTCTGCCCTATTCTCACAGGACCCGCCTCGTCCTCAAGGCCAAAGACAT
 CAGACATGAAGTGGTCAACATTAACCTGAGAAACAAGCCTGAATGGTACTATACAAAGCACCCCTTTGGC
 CACATTCCTGTCCTGGAGACCAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGG
 ATGATGCTTATCCAGGAAGGAAGCTGTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATT
 GGAGCTATTTTGAAGATTCTTGAGTATCAGAACCACCTTCTTTGGTGGAACTGTATATCCATGATT
 GATTACCTCCTCTGGCCCTGGTTTGGAGCGCTGGATGTGTATGGGATACTGGACTGTGTGAGCCACACGC
 CAGCCCTCGCGCTCTGGATATCAGCCATGAAGTGGGACCCACAGTCTGTGCTCTTCTCATGGATAAGAG
 CATTTTCCAGGGCTTCTGAATCTCTATTTTCAGAAACAACCTAATGCCTTTGACTTTGGGCTGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231054 representing NM_001191013
 Red=Cloning site Green=Tags(s)

MSGDATRTLKGKSGPPGPVPEGLIRIYSMRFPCYSHRTRLVLKAKDIRHEVVNINLRNKPEWYYTKHPFG
 HIPVLETSQCQLIYESVIACEYLDAYPGRKLPYDPERARQKMLLELFCCKILEYQNTTFFGGTCISMI
 DYLLWPWFERLDVYGILDCVSHTPALRLWISAMKWDPVTCALLMDKSIFQGFLNLYFQNNPNAFDGLC

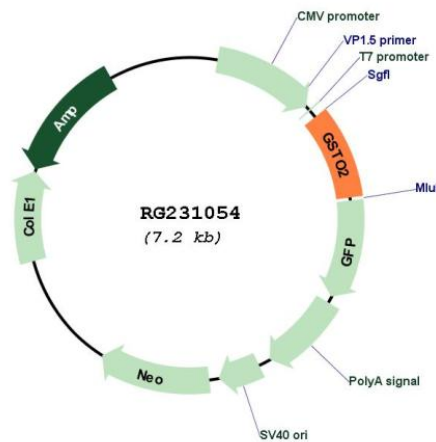
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


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:	<ol style="list-style-type: none">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 Size:	1444 bp
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
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]