

## Product datasheet for **RC231026**

### **GSTO2 (NM\_001191015) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GSTO2 (NM\_001191015) 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:** >RC231026 representing NM\_001191015  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGTTCTGCCCTATTCTCACAGGACCCGCCTCGTCCTCAAGGCCAAAGACATCAGACATGAAGTGG  
TCAACATTAACCTGAGAAACAAGCCTGAATGGTACTATACAAAGCACCCTTTTGGCCACATTCTGTCT  
GGAGACCAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGGATGATGCTTATCCA  
GGAAGGAAGCTGTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATTGGAGCTATTTGTA  
AGATTCTTGAGTATCAGAACACCACCTTTTGGTGGAACTGTATATCCATGATTGATTACCTCCTCTG  
GCCTGGTTTGTAGCGGCTGGATGTGTATGGGACTGGACTGTGTGAGCCACACGCCAGCCCTGCGGCTC  
TGGATATCAGCCATGAAGTGGGACCCACAGTCTGTGCTTTCTCATGGATAAGAGCATTTCAGGGCT  
TCTTGAATCTCTATTTTCAGAACACCCTAATGCCTTTGACTTTGGGCTGTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231026 representing NM\_001191015  
**Red=Cloning site Green=Tags(s)**

MRFCPYSHRTRLVLKAKDIRHEVVNINLRNKPEWYTKHPFGHIPVLETSQCQLIYESVIACEYLDDAYP  
GRKLFYDYPYERARQKMLLELFCKILEYQNTFFGGTCIS MIDYLLWPWFERLDVYGILDCVSHTPALRL  
WISAMKWDPTVCALLMDKSIFQGFLNLYFQNNPNAFDGLC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

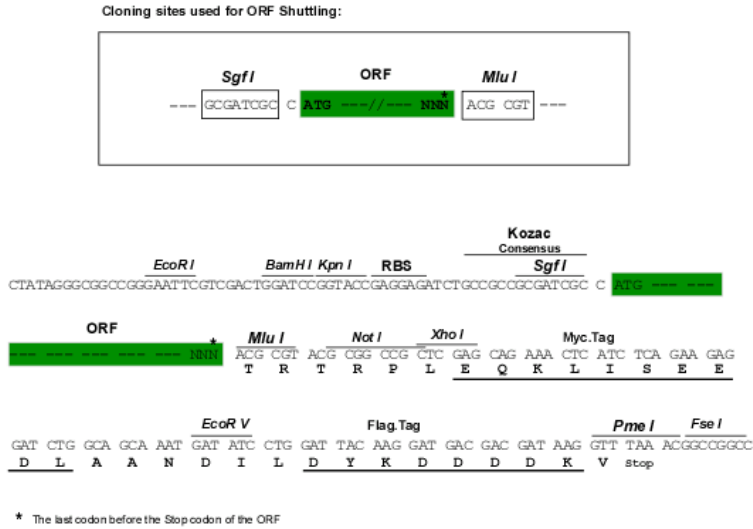
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1466\\_e06.zip](https://cdn.origene.com/chromatograms/ja1466_e06.zip)



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001191015

ORF Size: 543 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\\_001191015.2](#)

RefSeq ORF: 546 bp

Locus ID: 119391

UniProt ID: [Q9H4Y5](#)

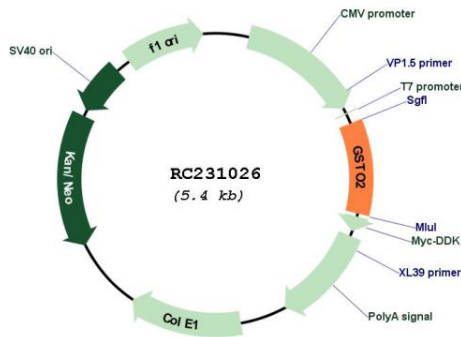
Cytogenetics: 10q25.1

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

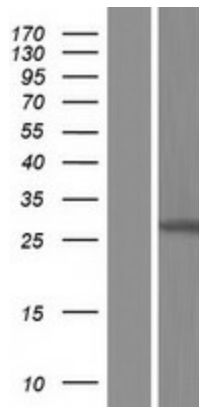
**MW:** 22 kDa

**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 RC231026



Western blot validation of overexpression lysate (Cat# [LY434025]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231026 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).