

## Product datasheet for **RG203086**

### **GST3 (GSTP1) (NM\_000852) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GST3 (GSTP1) (NM\_000852) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GST3  
**Synonyms:** DFN7; FAEES3; GST3; GSTP; HEL-S-22; PI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203086 representing NM\_000852  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCCCTACACCGTGGTCTATTTCCAGTTCGAGGCCGCTGCGCGGCCCTGCGCATGCTGCTGGCAG  
ATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGGAGGGCTCACTCAAAGCCTC  
CTGCCTATACGGGCAGCTCCCAAGTTCAGGACGGAGACCTCACCTGTACCAGTCCAATACCATCCTG  
CGTCACCTGGCCGCACCCTTGGGCTCTATGGGAAGACCAGCAGGAGGCAGCCCTGGTGGACATGGTGA  
ATGACGGCGTGGAGGACCTCCGCTGCAAATACGTCTCCCTCATCTACACCAACTATGAGGCGGGCAAGGA  
TGACTATGTGAAGGCACTGCCCGGCAACTGAAGCCTTTGAGACCCTGCTGTCCAGAACCAGGGAGGC  
AAGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATG  
AGGTCCTAGCCCCCTGGCTGCCTGGATGCCTTCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGCGCCC  
GCCAAGCTCAAGGCCTTCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG203086 representing NM\_000852  
Red=Cloning site Green=Tags(s)

MPPYTVVYFPVGRCAALRMLLADQGSWKEEVTVETWQEGSLKASCLYQQLPKFQDGLTLYQSNTIL  
RHLGRTLGLYGKDQQAALVDMVNDGVEDLRCKYVSLIYTNYEAGKDDYVKALPGQLKPFETLLSQNQQG  
KTFIVGDQISFADYNLLDLLLIHEVLAPGCLDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPIINGNKQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_000852

**ORF Size:** 630 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

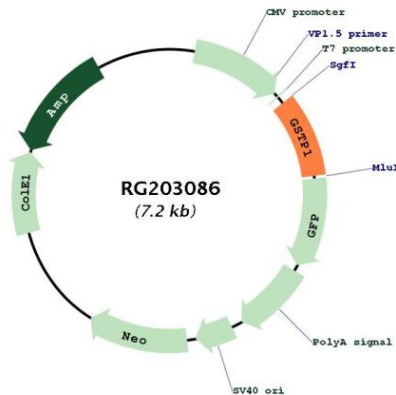
**Reconstitution Method:**

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\\_000852.2](#), [NP\\_000843.1](#)

RefSeq Size:	737 bp
RefSeq ORF:	633 bp
Locus ID:	2950
UniProt ID:	<a href="#">P09211</a>
Cytogenetics:	11q13.2
Domains:	GST_N, GST_C
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450, Pathways in cancer, Prostate cancer
Gene Summary:	Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG203086