

## Product datasheet for **RG226802**

### Glutathione S Transferase kappa 1 (GSTK1) (NM\_001143680) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase kappa 1 (GSTK1) (NM_001143680) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSTK1
Synonyms:	GST; GST13; GST 13-13; GST13-13; GSTK1-1; hGSTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226802 representing NM_001143680 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCTACTCCTGGCTGGGCTTCG  
AGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCAGCCTCATAACAGGGAT  
CATGAAAGACAGTGAAACAAGCCTCCAGGTCTGCTTCCCGCAAAGGACTATACATGGCAAATGACTTA  
AAGCTCCTGAGACACCATCTCCAGATCCCATCCACTTCCCAAGGATTTCTTGCTGTGATGCTTGAAA  
AAGGAAGTTTGTCTGCCATGCGTTTCTCACCGCCGTGAACCTGGAGCATCCAGAGATGCTGGAGAAAGC  
GTCCCGGAGCTGTGGATGCGCGTCTGGTCAAGGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAAGCC  
CAGGGACTTCTGAAAAGATCGCAACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCACTGAGGCAGCCT  
GCAGATACGGAGCCTTTGGGCTGCCATCACCGTGGCCCATGTGGATGGCCAAACCACATGTTATTTGG  
CTCTGACCGGATGGAGCTGCTGGCGCACCTGCTGGGAGAGAAGTGGATGGGCCCTATACCTCCAGCCGTG  
AATGCCAGACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG226802 representing NM\_001143680  
 Red=Cloning site Green=Tags(s)

MGPLPRTVELFYDVLSPYSWLGFELCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLPRKGLYMANDL  
 KLLRHHLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRELWMRVWSRAAEKAGMSAEQA  
 QGLLEKIATPKVKNQLKETTEAACRYGAFGLPITVAHVDGQTHMLFGSDRMELLAHLLGEKWMGPIPPAV  
 NARL

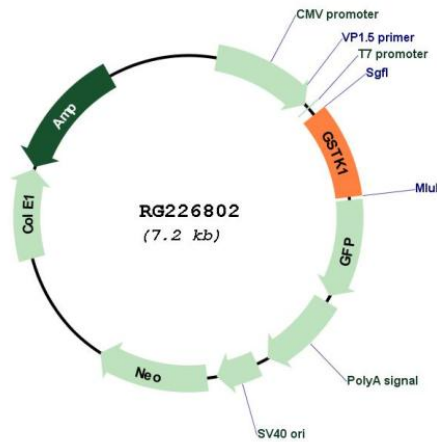
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001143680

**ORF Size:** 642 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001143680.1</a> , <a href="#">NP_001137152.1</a>
<b>RefSeq Size:</b>	1022 bp
<b>RefSeq ORF:</b>	645 bp
<b>Locus ID:</b>	373156
<b>UniProt ID:</b>	<a href="#">Q9Y2Q3</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Pathways:</b>	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
<b>Gene Summary:</b>	This gene encodes a member of the kappa class of the glutathione transferase superfamily of enzymes that function in cellular detoxification. The encoded protein is localized to the peroxisome and catalyzes the conjugation of glutathione to a wide range of hydrophobic substrates facilitating the removal of these compounds from cells. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]