

Product datasheet for **RG226807**

Glutathione S Transferase kappa 1 (GSTK1) (NM_001143681) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glutathione S Transferase kappa 1 (GSTK1) (NM_001143681) 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: >RG226807 representing NM_001143681
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCTACTCCTGGCTGGGCTTCG
AGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCAGCCTCATAACAGGGAT
CATGAAAGACAGTGAAGTTTGTCTGCCATGCGTTTCTCACCGCGTGAACCTGGAGCATCCAGAGATG
CTGGAGAAAGCGTCCCGGAGCTGTGGATGCGCGTCTGGTCAAGGAATGAAGACATCACCGAGCCGAGA
GCATCCTGGCGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAAGCCAGGGACTTCTGGAAAAGATCGC
AACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCACTGAGGCAGCCTGCAGATACGGAGCCTTTGGGCTG
CCCATCACCGTGGCCATGTGGATGGCCAAACCCACATGTTATTTGGCTCTGACCGGATGGAGCTGTGG
CGCACCTGCTGGGAGAGAAGTGGATGGGCCCTATACCTCCAGCCGTAATGCCAGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226807 representing NM_001143681
Red=Cloning site Green=Tags(s)

MGPLPRTVELFYDVLSPYSWLGFELCRYQNIWNINLQLRPSLITGIMKDSGSLSAMRFLTAVNLEHP
LEKASRELWMRVWSRNEITPQSILAAAEKAGMSAEQAQGLLEKIATPKVKVQLKETTAAACRYGAFGL
PITVAHVVDGQTHMLFGSDRMELLAHLLGEKWMGPIPPAVNARL

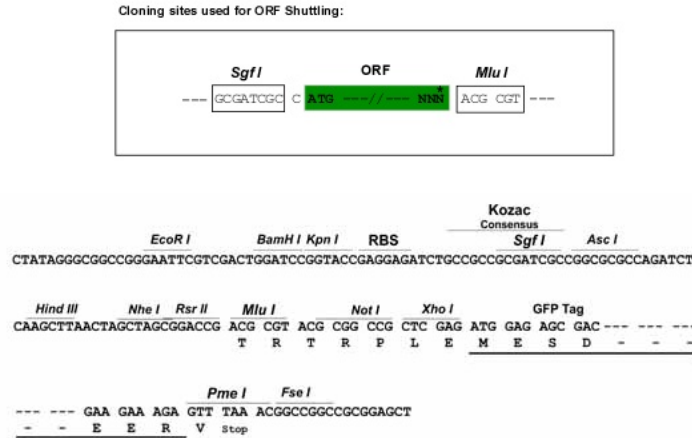
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

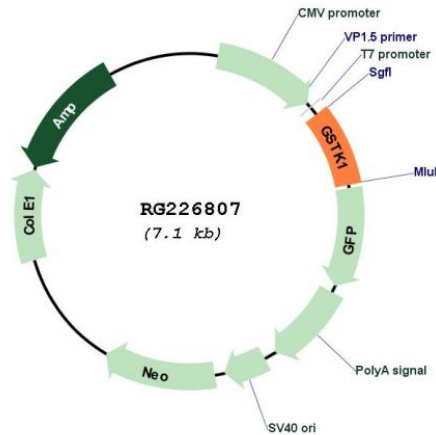


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001143681

ORF Size: 549 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:	<u>NM_001143681.1, NP_001137153.1</u>
RefSeq Size:	929 bp
RefSeq ORF:	552 bp
Locus ID:	373156
UniProt ID:	<u>Q9Y2Q3</u>
Cytogenetics:	7q34
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Gene Summary:	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]