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Product datasheet for RC226807

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:	Myc-DDK
Symbol:	Glutathione S Transferase kappa 1
Synonyms:	GST; GST13; GST 13-13; GST13-13; GSTK1-1; hGSTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC226807 representing NM_001143681
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCCTACTCCTGGCTGGGCTTCG
AGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCCAGCCTCATAACAGGGAT
CATGAAAGACAGTGGAAGTTTGTCTGCCATGCGTTTCCTCACCGCCGTGAACTTGGAGCATCCAGAGATG
CTGGAGAAAGCGTCCCGGGAGCTGTGGATGCGCGTCTGGTCAAGGAATGAAGACATCACCGAGCCGCAGA
GCATCCTGGCGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAAGCCCAGGGACTTCTGGAAAAGATCGC
AACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCACTGAGGCAGCCTGCAGATACGGAGCCTTTGGGCTG
CCCATCACCGTGGCCCATGTGGATGGCCAAACCCACATGTTATTTGGCTCTGACCGGATGGAGCTGCTGG
CGCACCTGCTGGGAGAGAAGTGGATGGGCCCTATACCTCCAGCCGTGAATGCCAGACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC226807 representing NM_001143681
Red=Cloning site Green=Tags(s)

MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQLRPSLITGIMKDSGSLSAMRFLTAVNLEHPEM
LEKASRELWMRVWSRNEDITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQLKETTEAACRYGAFGL
PITVAHVDGQTHMLFGSDRMELLAHLLGEKWMGPIPPAVNARL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms: https://cdn.origene.com/chromatograms/ja1456_a11.zip

View online »

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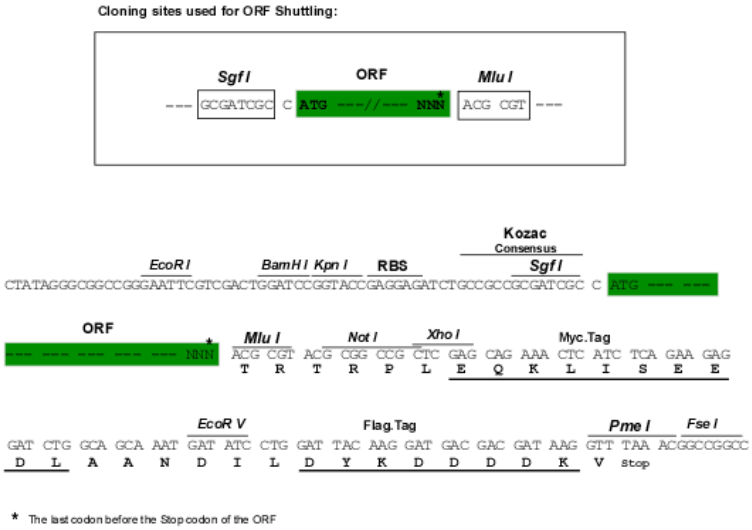
Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001143681.1, NP_001137153.1

RefSeq ORF: 552 bp

Locus ID: 373156

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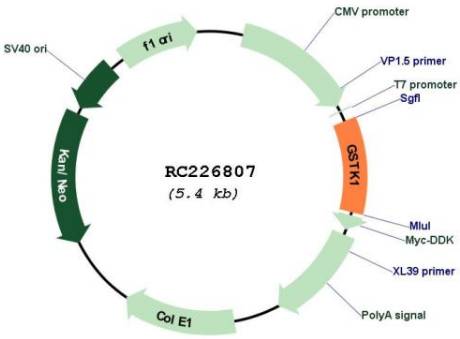
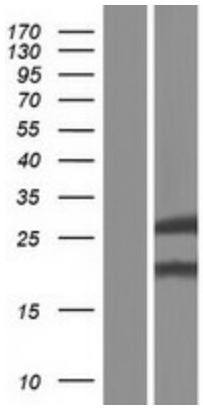
UniProt ID:	Q9Y2Q3
Cytogenetics:	7q34
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	20.4 kDa
Gene Summary:	This gene encodes a member of the kappa class of the glutathione transferase superfamily of enzymes that function in cellular detoxification. The encoded protein is localized to the peroxisome and catalyzes the conjugation of glutathione to a wide range of hydrophobic substates facilitating the removal of these compounds from cells. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]

Product images:



Circular map for RC226807



Western blot validation of overexpression lysate (Cat# [LY428317]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226807 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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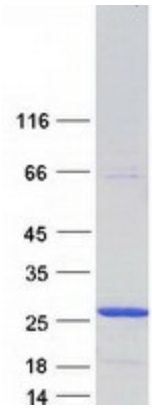

Coomassie blue staining of purified GSTK1 protein (Cat# [TP326807]). The protein was produced from HEK293T cells transfected with GSTK1 cDNA clone (Cat# RC226807) using MegaTran 2.0 (Cat# [TT210002]).

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