OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC226665

Glutathione S Transferase kappa 1 (GSTK1) (NM_001143679) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase kappa 1 (GSTK1) (NM_001143679) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GSTK1
Synonyms:	GST; GST13; GST 13-13; GST13-13; GSTK1-1; hGSTK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226665 representing NM_001143679 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGCCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCCTACTCCTGGCTGGGCTTCG AGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCCAGCCTCATAACAGGGAT CATGAAAGACAGTGGAAACAAGCCTCCAGGTCTGCTTCCCCGCAAAGGACTATACATGGCAAATGACTTA AAGCTCCTGAGACACCATCTCCAGATTCCCATCCACTTCCCCAAGGATTTCTTGTCTGTGATGCTTGAAA AAGGAAGTTTGTCTGCCATGCGTTTCCTCACCGCCGTGAACTTGGAGCATCCAGAGATGCTGGAGAAAGC GTCCCGGGAGCTGTGGATGCGCGTCTGGTCAAGGGTGAGTGTGGGGCTCTGGGAATCCTCTGGGAGGACC TTGGATGACTTTCTGACCTTCCCCAGGCACGTTTTCAGGGTCATGATCCTGCCCCCGCCCGGGGGATCTA CTGTCCTCCCAGTCACACCCCTCTCCCCGCACCGCCTTCCTGCTGTCTTCTCTTCTTCCCAGAATGAAGA CATCACCGAGCCGCAGAGCATCCTGGCGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAAGCCCAGGGA CTTCTGGAAAAGATCGCAACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCACTGAGGCAGCCTGCAGAT ACGGAGCCTTTGGGCTGCCCATCACCGTGGCCCATGTGGATGGCCAAACCCACATGTTATTTGGCTCTGA CCGGATGGAGCTGCTGGCGCACCTGCTGGGAGAGAAGTGGATGGGCCCTATACCTCCAGCCGTGAATGCC AGACTT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

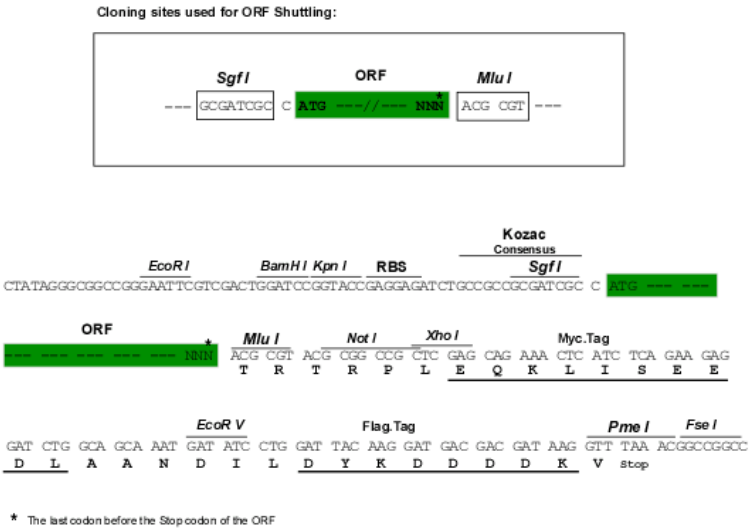
>RC226665 representing NM_001143679
Red=Cloning site Green=Tags(s)

MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLPRKGLYMANDL
KLLRHHLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRELWMRVWSRVSVGLWESSGRT
LDDFLTFPRHVFRVMILPPPGGSTVLPVTPLSPHRLPAVFSSSQNEDITEPQSILAAAEKAGMSAEQAQG
LLEKIATPKVKNQLKETTEAACRYGAFGLPITVAHVDGQTHMLFGSDRMELLAHLLGEKWMGPIPPAVNA
RL

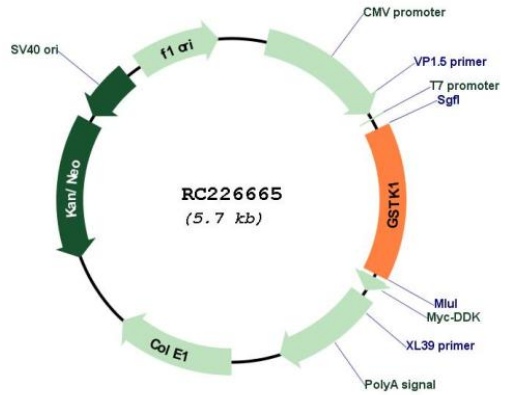
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001143679

ORF Size: 846 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_001143679.1, NP_001137151.1
RefSeq ORF:	849 bp
Locus ID:	373156
UniProt ID:	Q9Y2Q3
Cytogenetics:	7q34
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	31.4 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]