

## Product datasheet for **SC104101**

### Glutathione S Transferase kappa 1 (GSTK1) (AK095263) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase kappa 1 (GSTK1) (AK095263) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glutathione S Transferase kappa 1
Synonyms:	GST; GST13; GST 13-13; GST13-13; GSTK1-1; hGSTK1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK095263, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCCTACTCCTGGCTGGGCTTCG
AGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCAGCCTCATAACAGGGAT
CATGAAAGACAGTGAAACAAGCCTCCAGGTCTGCTTCCCCGCAAAGGACTATACATGGCAAATGACTTA
AAGCTCCTGAGACACCATCTCCAGATCCCATCCACTTCCCCAAGGATTCTTGCTGTGATGCTTGAAA
AAGTGAAGAGAGTGGGATGTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK095263 unedited</p> <pre> ACATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCAGCATGGGGCCC CTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCTACTCCTGGCTGGGCTTC GAGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCACGCTC ATAACAGGGATCATGAAAGACAGTGGAAACAAGCCTCCAGGTCTGCTTCCCGCAAAGGA CTATACATGGCAAATGACTTAAAGCTCCTGAGACACCATCTCCAGATCCCATCCACTTC CCCAAGGATTTTCTGTCTGTGATGCTTAAAAAGGAAGTTTGTCTGCCATGCGTTTTCTC ACCGCGTGAACCTGGAGCATCCAGAGATGCTGGAGAAAAGCGTCCCGGGAGCTGTGGATG CGCGTCTGGTCAAGGAATGAAGACATCACCGAGCCGAGAGCATCCTGGCGGCTGCAGAG AAGGCTGGTATGTCTGCAGAACAAGCCAGGGACTTCTGGAAAAGATCGCAACGCCAAAG GTGAAGAACCAGCTCAAGGAGACCACTGAGGCAGCCTGCAGATACGGAGCCTTTGGGCTG CCCATCACCGTGGCCATGTGGATGGCCAAACCCACATGTTATTTGGGCTCTGACCGGAT GGAGCTGTGGCGCACCTGCTGGGAGAGAGTGGATGGGCCCTATACCTCCAGCCGTGAAT GCCAGACTTTAAGATTGCCCGGAGGAACCAACTTTCGTATAAAAAAGCAGCCATCTGCT TAACCCTGGCTCCCATAGGCACTGGGACTTCGATTTCTTCTGATAGAGTATTTCTGT GGCCCTGGAGCTTCTGTCTTTCCCTACCCAGATGCCAGAGACGTCCTAACCCAGTGA CCTTACTTATGCTCAAGCTTTAAAACCCATTGTTTCCACAAAAACC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AK095263 unedited</p> <pre> ATTACTATGNACCGCGTCCGCAAGCTCANGATCGTTTTTTTTTTTTTTTTTTTTTTTTTTT CCTGATGGCATTAGGTTTATTTTGTGGAAAGCAGAATTGGGGCTCTCTGAAAGCACTTG TGAGGCATAGAAGTAAAGTTGCCACATGGCTAATGGTGGACGTCTTCTGGCATCCTTG GGGTAGGGGAAAAGACAGACAGCTCCCAGGGCCACAGAAAATACCTCTATCAGATAGAGA AATCCGAGTCCCAGTGCCTTATGGTGGAGCCAAGGTTAAGCAGATGGCCTGCTTTTTTT ATACGAAGAGTTTCTTCTCCGGGCAATCTTAAAGTCTGGCATTACGGCTGGAGGTAT AGGGCCCATCCACTTCTCTCCAGCAGGTGCGCCAGCAGCTCCATCCGGTCCAGAGCCAAA TAACATGTGGGTTTGGCCATCCACATGGGCCACGGTATGGGCAGCCAAAGGCTCCGTA TCTGCAGGCTGCCTCAGTGGTCTCCTTGAGCTGGTTCTTACCTTTGGCGTTGCGATCTT TTCCAGAAGTCCCTGGGCTTGTCTGCAGACATACCAGCCTTCTCTGCAGCCGCCAGGAT GCTCTGCGGCTCGGTGATGTCTTTCATTCTTGACCAGACGCGCATCCACAGCTCCCGGGA CGTTTTCTCCAGCATCTCTGGATGCTCCAAGTTCACCGCGGTGAGGAAACGCATGGCAGA CAAACCTCCTTTTTTTCAGCATCACAGACCAGAAATCCTTGGGAAATGGATGGGAATCTG GGAGAAGGTGTCTCACGAGCTTTAAGTCATTGCCCTGGTTAGTCCTTTTGCGGGAAGCAG ACCTGGAGCTTGTTCCTGCTTTCTGATCCCCGTTATGAGGCTGGCCGCAACTGCCG GTGATGGTTCCAAATTCTGGTACCCGCCAGAT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK095263
<b>Insert Size:</b>	1000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">AK095263.1</a></u> , <u><a href="#">BAG53018.1</a></u>
<b>RefSeq Size:</b>	2692 bp
<b>RefSeq ORF:</b>	303 bp
<b>Locus ID:</b>	373156
<b>Cytogenetics:</b>	7q34
<b>Domains:</b>	DSBA
<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 substates facilitating the removal of these compounds from cells. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]