

## Product datasheet for **SC325613**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase kappa 1 (GSTK1) (NM_001143680) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTK1
Synonyms:	GST; GST13; GST 13-13; GST13-13; GSTK1-1; hGSTK1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001143680, the custom clone sequence may differ by one or more nucleotides ATGGGGCCCTGCCGCGCACCGTGGAGCTCTTCTATGACGTGCTGTCCCCTACTCCTGG CTGGGCTTCGAGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGG CCCAGCCTCATAACAGGGATCATGAAAGACAGTGGAAACAAGCCTCCAGGTCTGTTCCC CGCAAAGGACTATACATGGCAAATGACTTAAAGCTCCTGAGACACCATCTCCAGATTCCC ATCCACTTCCCCAAGGATTTCTTGTCTGTGATGCTTGAAAAGGAAGTTTGTCTGCCATG CGTTTCCTCACCGCCGTGAACCTTGGAGCATCCAGAGATGCTGGAGAAAGCGTCCCGGGAG CTGTGGATGCGCGTCTGGTCAAGGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAAGCC CAGGGACTTCTGAAAAGATCGCAACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCACT GAGGCAGCTGCAGATACGGAGCCTTTGGGCTGCCCATACCGTGGCCCATGTGGATGGC CAAACCCACATGTTATTTGGCTCTGACCGGATGGAGCTGCTGGCGCACCTGCTGGGAGAG AAGTGGATGGGCCCTATACCTCCAGCCGTGAATGCCAGACTT
Restriction Sites:	Please inquire
ACCN:	NM_001143680
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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**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\\_001143680.1](#), [NP\\_001137152.1](#)

**RefSeq Size:** 1022 bp

**RefSeq ORF:** 645 bp

**Locus ID:** 373156

**UniProt ID:** [Q9Y2Q3](#)

**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]  
Transcript Variant: This variant (3) lacks an exon in the coding region compared to variant 1. The encoded protein (isoform c) is shorter compared to isoform a.