

## Product datasheet for SC325572

### Glutathione S Transferase kappa 1 (GSTK1) (NM\_001143681) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase kappa 1 (GSTK1) (NM_001143681) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTK1
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)
Fully Sequenced ORF:	>SC325572 representing NM_001143681. Blue=Insert sequence Red=Cloning site Green=Tag(s)

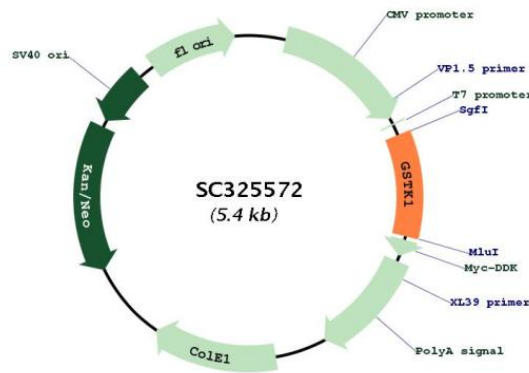
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGGGGCCCTGCCGCGCACCGTGGAGCTTTCTATGACGTGCTGTCCCCCTACTCCTGGCTGGGCTTC  
GAGATCCTGTGCCGGTATCAGAATATCTGGAACATCAACCTGCAGTTGCGGCCAGCCTCATAACAGGG  
ATCATGAAAGACAGTGAAGTTTGTCTGCCATGCGTTTCCTCACCGCCGTGAACCTGGAGCATCCAGAG  
ATGCTGGAGAAAGCGTCCCGGGAGCTGTGGATGCGCGTCTGGTCAAGGAATGAAGACATCACCGAGCCG  
CAGAGCATCCTGGCGGCTGCAGAGAAGGCTGGTATGTCTGCAGAACAGCCAGGGACTTCTGAAAAAG  
ATCGCAACGCCAAAGGTGAAGAACCAGCTCAAGGAGACCTGAGGCAGCCTGCAGATACGGAGCCTTT  
GGGCTGCCATCACCGTGGCCATGTGGATGGCCAAACCCACATGTTATTTGGCTCTGACCGGATGGAG  
CTGCTGGCGCACCTGCTGGGAGAGAAGTGGATGGGCCCTATACCTCCAGCCGTGAATGCCAGACTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001143681

**Insert Size:** 552 bp

**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).

**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:	<u>NM_001143681.1</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
MW:	20.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an exon in the coding region compared to variant 1. The encoded protein (isoform d) is shorter compared to isoform a.</p>