

## Product datasheet for **SC201667**

### **GSTA3 (NM\_000847) Human 3' UTR Clone**

#### Product data:

Product Type:	3' UTR Clones
Product Name:	GSTA3 (NM_000847) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GSTA3
Synonyms:	GSTA3-3; GTA3
ACCN:	NM_000847
Insert Size:	190 bp
Insert Sequence:	>SC201667 3'UTR clone of NM_000847 The sequence shown below is from the reference sequence of NM_000847. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GAAGAAGCCAGAAAGATTTTCAGGTTT <b>TA</b> AAGCAGCCATGGAGGCTAAGAACATGCAAGACCAATA TTCTAAAGTTTTGCAACAATGAAGTCTTTACTTAAGTGTGATTGTGCCTGTTGTAAGCTAATGAAC CCTTTCCAATTATATGCTAATTAATAATAAAAACTCCTATTTGCTAACTTA <b>ACGCGT</b> AAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u><a href="#">NM_000847.5</a></u>



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**Summary:**

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class genes that are located in a cluster mapped to chromosome 6. Genes of the alpha class are highly related and encode enzymes with glutathione peroxidase activity. However, during evolution, this alpha class gene diverged accumulating mutations in the active site that resulted in differences in substrate specificity and catalytic activity. The enzyme encoded by this gene catalyzes the double bond isomerization of precursors for progesterone and testosterone during the biosynthesis of steroid hormones. An additional transcript variant has been identified, but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]

**Locus ID:**

2940

**MW:**

7.2