

## Product datasheet for **SC322435**

### GSTA4 (NM\_001512) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSTA4 (NM_001512) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTA4
Synonyms:	GSTA4-4; GTA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322435  
 AGAAAGCCTGAAAAGCTATCATGGCAGCAAGGCCCAAGCTCCACTATCCCAACGGAAGAG  
 GCCGGATGGAGTCCGTGAGATGGGTTTTAGCTGCCGCCGGAGTCGAGTTTGATGAAGAAT  
 TTCTGGAAACAAAAGAACAGTTGTACAAGTTGCAGGATGGTAACACCTGCTGTTCCAAC  
 AAGTGCCCATGGTTGAAATTGACGGGATGAAGTTGGTACAGACCCGAAGCATTCTCCACT  
 ACATAGCAGACAAGCACAATCTCTTTGGCAAGAACCTCAAGGAGAGAACCCTGATTGACA  
 TGTACGTGGAGGGGACACTGGATCTGCTGGAAGTCTTATCATGCATCCTTTCTAAAAC  
 CAGATGATCAGCAAAAGGAAGTGGTTAACATGGCCAGAAGGCTATAATTAGATACTTTC  
 CTGTGTTTAAAAGATTTTAAGGGGTCACGGACAAAGCTTTCTTGTGGTAATCAGCTGA  
 GCCTTGCAGATGTGATTTTACTCCAACCATTTTAGCTCTAGAAGAGAAAATTCCTAATA  
 TCCTGTCTGCATTTCTTCTCCAGGAATACACAGTAACTAAGTAATATCCCTACAA  
 TTAAGAGATTCCTTGAACCTGGCAGCAAGAAGAAGCCTCCCCCTGATGAAATTTATGTGA  
 GAACCGTCTACAACATCTTTAGGCCATAAAACAACACATCCATGTGTGAGTGACAGTGTG  
 TTCTAGAGATGGTATTGTCTACAGTCATGTCTTAATGGATCCCAGCTCTGTCATGGTGC  
 TATCTATGTATTAAGTTGGGTCTAAGTTGGGTCTTTGTGTCAAAGAGATCATCTCTTC  
 TAGAAATATCAACCTTTTTGTCCAGTAAATAATTGTTAGGGGATCTTTATTGAAAAC  
 TTTTGGAGAGGCTGGTATTTAAGTTAGATCTGATTGGGCTACTCATGTCCTGTAGCCAG  
 TTCATCCTCATAATAAGAATGGCAGGATCTCTGTTCTCTCCTGAGTGTCTTTCTACTC  
 TCCTGAGCGTCTTCTGCTCTCCTTATCCTGTTCTCTTATCCTTATCCCCTCCAGTCTCT  
 GCCTAATTTTTAGTGTAAATAACAACCAAGTCTAGTAAATGACTCTCCTCTGAGCTG  
 TAATAAATAAAATGGTAGTAATGAATGCAATCAGTGTAGCCAAAATAAAGAATTTATGA  
 GTCATTGAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_001512



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<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>OTI Annotation:</b>	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.
<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>	<a href="#">NM_001512.2</a> , <a href="#">NP_001503.1</a>
<b>RefSeq Size:</b>	1317 bp
<b>RefSeq ORF:</b>	669 bp
<b>Locus ID:</b>	2941
<b>UniProt ID:</b>	<a href="#">O15217</a>
<b>Cytogenetics:</b>	6p12.2
<b>Domains:</b>	GST_N, GST_C
<b>Protein Pathways:</b>	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
<b>Gene Summary:</b>	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. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq, Jul 2008]