

Product datasheet for SC119179

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119179 sequence for NM_001512 edited (data generated by NextGen Sequencing) ATGGCAGCAAGGCCCAAGCTCCACTATCCCAACGGAAGAGGCCGGATGGAGTCCGTGAGA TGGGTTTTAGCTGCCCGGAGTCGAGTTTGATGAAGAATTTCTGAAACAAAAGAACAG TTGTACAAGTTGCAGGATGGTAACACCTGCTGTTCCAACAAGTGCCCATGGTTGAAATT GACGGGATGAAGTTGGTACAGACCCGAAGCATTCTCCACTACATAGCAGACAAGCACAAT CTCTTTGGCAAGAACCTCAAGGAGAGAACCCTGATTGACATGTACGTGGAGGGGACACTG GATCTGCTGGAAGCTTATCATGCATCCTTTCTAAAACCAGATGATCAGCAAAAGGAA GTGGTTAACATGGCCAGAAAGGCTATAATTAGATACTTTCCTGTGTTGAAAAGATTTTA AGGGGTCACGGACAAAGCTTTCTTGTGGTAATCAGCTGAGCCTTGACAGATGTGATTTTA CTCCAAACCATTTTAGCTCTAGAAGAGAAAATTCCTAATATCCTGTCTGCATTTCTTTTC CTCCAGGAATACACAGTAACTAAGTAATATCCCTACAATTAAGAGATTCTTGAACCT GGCAGCAAGAAGAAGCCTCCCCCTGATGAAATTTATGTGAGAACCGTCTACAACATCTTT AGGCCATAA

Clone variation with respect to NM_001512.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001512 unedited</p> <pre> CGGTGTGTACCTATATGTTNGTCAATCCACGCACGTTCACTTATTCAGGGNCGGNCCC CGCCAATTNCGGNCACGCAGGGCTTCCGNAGTGGTACTCCAGNAAAGCCTTGAAAAGCTA TCATGGCAGCAAGGCCAAGCTCCACTATCCCAACGGAAGAGGCCGGATGGAGTCCGTGA GATGGGTTTTAGCTGCCGCCGGAGTCGAGTTTGATGAAGAATTTCTGGAAACAAAAGAAC AGTTGTACAAGTTGCAGGATGGTAACCACCTGCTGTTCCAACAAGTGCCCATGGTTGAAA TTGACGGGATGAAGTTGGTACAGACCCGAAGCATTCTCCACTACATAGCAGACAAGCACA ATCTCTTTGGCAAGAACCCTCAAGGAGAGAACCCTGATTGACATGTACGTGGAGGGGACAC TGGATCTGCTGGAAGTCTTATCATGCATCCTTTCTTAAACCAGATGATCAGCAAAAGG AAGTGGTTAACATGGCCAGAAGGCTATAATTAGATACTTTCCTGTGTTGAAAAGATTT TAAGGGGTACGGACAAAGCTTTCTTGTGGTAATCAGCTGAGCCTTGACAGATGTGATTT TACTCCAAACCATTTTAGCTCTAGAAGAGAAAATTCCTAGTATCCTGTCTGCATTTCTT TCCTCCAGGAGTACACAGTGAACCTAAGTAATATCCCTCCATTAAGAGATTCCTTTGACC TGCCAGCCAGAAGAGCCTCCCCCTGATGAAATTATGTGAGACCGTTTACAACATCTTTAG GCCATAAAACAACACATCCATGTGTGAGTGACCGGGTGTCTTAGAGATGGTATTGCTTC CGTCATGTTTTATGGGATCCCAGCTCTGCCATGGGGCTACTATGTTATAAAGTGGGGCCT AAGTTGGGCTTTTGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001512 unedited</p> <pre> ACTTCCAGGGCCGNAAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTC AGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTT TTTAAAGGACCCAAAATCTTTATTGG GCTAAAACGGATGGCATTCAATACCCCATTTTATTTATTACCGCCAAGAGGAAAGTCT TTTTTAAACCTTCGGGGTTTTTAAACCCTAAAATAGGCCAAAAGTGGGGGGGATAA GGATAAAAAAACCGGATAGGGAGACCCAAAAGCCCTCAGGAAAGTAAAAAGACCCTCGG GAAAAACAAAAACCCCGCCATTCTTATTATGAGGATGAACTGGCTACAGGACATGAG TACCCCAATCAATCTAACTTAAATCCCCCCCCCTCAAAAAAGTTTTCCAATAAAAAACC CCCTAACAAATTTTACGGGACAAAAAGGGTGATTTTTCTAAAAAAATGATCTCGTTG ACCCAAAAACCAACTTAGGCCCACTTAATACATAAATAGCCCCCTGACAGAGCTGG GACCCATTAACATGACTGGAACAATCCCATCTTTAGGAACACACTGGCACTCCACAT GGGATGTGTTGTTTTATGTCCTAAAAATGTTGGAACCGTTCTCACATAAATTTTCATAGG GGGAGGCTTCTTCTTGTGCTGCCAGTTCAAGGAATCTTTAATGGAGGGAATTACTIONTTT CCTGGGNATTCCTGGGAAAGGAACGCCAACCGGATTTAGAATTTCTCTTCAAGCAAAA GGGTTGAGTAAACCCATGGGAGGCTCAGCTGATCCAACGAAAGCTTGCCGGGACCCTTAA ATCTTTAAACAAGGAAGGTCTATTTAGCCTTGGGGCAGTTACCCCTCTTTGGGAAAT GGTTTAAAGGGGCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001512
Insert Size:	1310 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).
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:	<ol style="list-style-type: none">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_001512.2 , NP_001503.1
RefSeq Size:	1317 bp
RefSeq ORF:	669 bp
Locus ID:	2941
UniProt ID:	O15217
Cytogenetics:	6p12.2
Domains:	GST_N, GST_C
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Gene Summary:	<p>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]</p>