GSTA2 cDNA Clone – Glutathione S-Transferase Alpha 2 (Human)

PRODUCT OVERVIEW

Product Name	GSTA2, cDNA Clone
Full Product Name	GSTA2 cDNA Clone
Product Gene Name	GSTA2 cdna clone
Sequence	atggcagaga agcccaagct ccactactcc aatatacggg gcagaatgga gtccatccgg tggctcctgg ctgcagctgg agtagagttt gaagagaaat ttataaaatc tgcagaagat ttggacaagt taagaaatga tggatatttg atgttccagc aagtgccaat ggttgagatt gatgggatga agctggtgca gaccagagcc attctcaact acattgccag caaatacaac ctctatggga aagacataaa ggagaaagcc ctgattgata tgtatataga aggtatagca gatttgggtg aaatgatcct tcttctgccc tttactcaac ctgaggaaca agatgccaag cttgccttga tccaagagaa aacaaaaaat cgctacttcc ctgcctttga aaaagtctta aagagccacg gacaagacta ccttgttggc aacaagctga gccgggctga cattcacctg gtggaacttc tctactacgt ggaagagctt gactctagcc ttatttccag cttccctctg ctgaaggccc tgaaaaccag aatcagtaac ctgcccacag tgaagaagtt tctacagcct ggcagcccaa ggaagcctcc catggatgag aaatctttag aagaatcaag gaagattttc aggttttaa
Molecular Weight	25,664 Da
OMIM	138360
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GSTA2 cdna clone	MBS1271305 is a cDNA clone targeting GSTA2.
Other Notes	Small volumes of GSTA2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTA2. It may not necessarily be applicable to this product.

NCBI GI #	33877307
NCBI GeneID	2939
NCBI Accession #	BC002895
UniProt Secondary Accession #	Q12759; Q16491; Q9NTY6
UniProt Related Accession #	P09210
NCBI Official Full Name	Homo sapiens glutathione S-transferase alpha 2, mRNA
NCBI Official Synonym Full Names	glutathione S-transferase alpha 2
NCBI Official Symbol	GSTA2
NCBI Official Synonym Symbols	GST2; GTA2; GTH2; GSTA2-2
UniProt Protein Name	Glutathione S-transferase A2
UniProt Synonym Protein Names	GST HA subunit 2; GST class-alpha member 2; GST-gamma; GSTA2-2; GTH2
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTA2

UniProt Synonym Gene Names	GST2
UniProt Entry Name	GSTA2_HUMAN
NCBI Protein Information	glutathione S-transferase A2
NCBI Summary for GSTA2	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. 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-tranferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. [provided by RefSeq, Jul 2008]
UniProt Comments for GSTA2	GSTA2: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Belongs to the GST superfamily. Alpha family. Protein type: EC 2.5.1.18; Xenobiotic Metabolism - metabolism by cytochrome P450; Transferase; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - drug metabolism - cytochrome P450 Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: cytosol Molecular Function: glutathione transferase activity; protein binding Biological Process: epithelial cell differentiation; glutathione metabolic process
Research Articles on GSTA2	**1.** the GSTA2 S112T polymorphism is predictive of transplant outcome in patients receiving busulfan in the preparative regimen, at least in association with cyclophosphamide.
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