GSTM2 cDNA Clone – Glutathione S-Transferase Mu 2 (Muscle) (Human)

PRODUCT OVERVIEW

Product Name	GSTM2, cDNA Clone
Full Product Name	GSTM2 cDNA Clone
Product Gene Name	GSTM2 cdna clone
Sequence	ATGCCCATGA CACTGGGGTA CTGGAACATC CGCGGGCTGG CCCATTCCAT CCGCCTGCTC CTGGAATACA CAGACTCAAG CTACGAGGAA AAGAAGTACA CGATGGGGGA CGCTCCTGAT TATGACAGAA GCCAGTGGCT GAATGAAAAA TTCAAGCTGG GCCTGGACTT TCCCAATCTG CCCTACTTGA TTGATGGGAC TCACAAGATC ACCCAGAGCA ACGCCATCCT GCGGTACATT GCCCGCAAGC ACAACCTGTG CGGGGAATCA GAAAAGGAGC AGATTCGCGA AGACATTTTG GAGAACCAGT TTATGGACAG CCGTATGCAG CTGGCCAAAC TCTGCTATGA CCCAGATTTT GAGAAACTGA AACCAGAATA CCTGCAGGCA CTCCCTGAAA TGCTGAAGCT CTACTCACAG TTTCTGGGGA AGCAGCCATG GTCTCTTGGG GACAAGATCA CCTTTGTGGA TTTCATCGCT TATGATGTCC TTGAGAGAAA CCAAGTATTT GAGCCCAGCT GCCTGGATGC CTTCCCAAAC CTGAAGGACT TCATCTCCCG ATTTGAGGGC TTGGAGAAGA TCTCTGCCTA CATGAAGTCC AGCCGCTTCC TCCCAAGACC TGTGTTCACA AAGATGGCTG TCTGGGGCAA CAAGTAG
Molecular Weight	22,644 Da
OMIM	138380
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 GSTM2 cdna clone	MBS1274173 is a cDNA clone targeting GSTM2.
Other Notes	Small volumes of GSTM2 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 GSTM2. It may not necessarily be applicable to this product.

NCBI GI #	114205476
NCBI GeneID	2946
NCBI Accession #	BC110380
UniProt Secondary Accession #	Q2M318; Q5TZY5; Q8WWE1; B4DRY4; E9PEM9
UniProt Related Accession #	P28161
NCBI Official Full Name	Homo sapiens glutathione S-transferase mu 2 (muscle), mRNA
NCBI Official Synonym Full Names	glutathione S-transferase mu 2
NCBI Official Symbol	GSTM2
NCBI Official Synonym Symbols	GST4; GSTM; GTHMUS; GSTM2-2
UniProt Protein Name	Glutathione S-transferase Mu 2
UniProt Synonym Protein Names	GST class-mu 2; GSTM2-2

Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTM2
UniProt Synonym Gene Names	GST4
UniProt Entry Name	GSTM2_HUMAN
NCBI Protein Information	glutathione S-transferase Mu 2
NCBI Summary for GSTM2	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. 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 that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and 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 certain drugs. [provided by RefSeq, Jul 2008]
UniProt Comments for GSTM2	GSTM2: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Belongs to the GST superfamily. Mu family. Protein type: Motility/polarity/chemotaxis; Transferase; EC 2.5.1.18 Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cytoplasm; cytosol; sarcoplasmic reticulum Molecular Function: enzyme binding; glutathione binding; glutathione peroxidase activity; glutathione transferase activity; protein binding; protein homodimerization activity; receptor binding Biological Process: glutathione metabolic process; linoleic acid metabolic process; nitrobenzene metabolic process; regulation of skeletal muscle contraction via regulation of the release of sequestered calcium ion; xenobiotic catabolic process
Research Articles on GSTM2	**1.** The absence of GSTM1 and GSTT1 genes increases the risk of lung cancer because of radon exposure.
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