

# Recombinant Full Length Human GSTM3 Protein, GST-tagged

Cat. No. GSTM3-3363HF Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Human GSTM3 full-length ORF ( AAH30253, 1 a.a. - 65 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 65 amino acids

### Description

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 individuals susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants. [provided by RefSeq

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	32.89 kDa
<b>AA Sequence</b>	MVRGPKWQGYPMSSGGIVQTEGAKQTIQLPCFATPCEQGLGVQASILGMGEPLAR RGIKLRFSV
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	GSTM3 glutathione S-transferase mu 3 (brain) [ Homo sapiens ]
<b>Official Symbol</b>	GSTM3
<b>Synonyms</b>	GSTM3; glutathione S-transferase mu 3 (brain); glutathione S transferase M3 (brain); glutathione S-transferase Mu 3; GST5; hGSTM3-3; brain GST; GST class-mu 3; glutathione S-transferase, Mu-3; glutathione S-aryltransferase M3; glutathione S-alkyltransferase M3; glutathione S-aralkyltransferase M3; S-(hydroxyalkyl)glutathione lyase M3; glutathione S-transferase M3 (brain); brain type mu-glutathione S-transferase; GSTB; GTM3; GSTM3-3; MGC3310; MGC3704;
<b>Gene ID</b>	2947

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mRNA Refseq	NM_000849
Protein Refseq	NP_000840
MIM	138390
UniProt ID	P21266

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