

Product datasheet for **RC201013**

GSTM3 (NM_000849) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GSTM3 (NM_000849) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GSTM3
Synonyms: GST5; GSTB; GSTM3-3; GTM3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201013 representing NM_000849
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

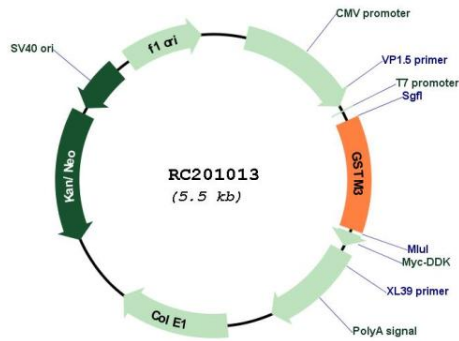
ATGTCGTGCGAGTCGTCTATGGTTCTCGGGTACTGGGATATTCGTGGGCTGGCGCACGCCATCCGCCTGC
TCCTGGAGTTCACGGATACCTCTTATGAGGAGAAACGGTACACGTGCGGGGAAGCTCCTGACTATGATCG
AAGCCAATGGCTGGATGTGAAATCAAGCTAGACCTGGACTTTCCTAATCTGCCCTACCTCCTGGATGGG
AAGAACAAGATCACCCAGAGCAATGCCATCTTGCCTACATCGCTCGCAAGCACAAATGTGTGGTGA
CTGAAGAAGAAAAGATTCGAGTGGACATCATAGAGAACCAAGTAATGGATTTCCGCACACAACCTGATAAG
GCTCTGTTACAGCTCTGACCACGAAAACTGAAGCCTCAGTACTTGAAGAGCTACCTGGACAACCTGAAA
CAATTCCTCATGTTTCTGGGAAATTCTCATGGTTTGCCGGGAAAAGCTCACCTTTGTGGATTTTCTCA
CCTATGATATCTTGGATCAGAACCCTATATTTGACCCCAAGTGCCTGGATGAGTTCCCAAACCTGAAGGC
TTTCATGTGCCGTTTTGAGGCTTTGGAGAAAATCGCTGCCTACTTACAGTCTGATCAGTTCTGCAAGATG
CCCATCAACAACAAGATGGCCAGTGGGCAACAAGCCTGTATGC

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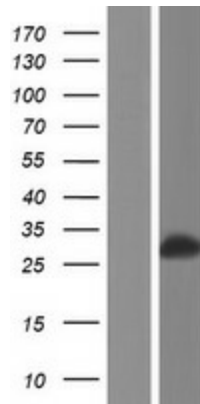


Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) 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_000849.5
RefSeq Size:	3948 bp
RefSeq ORF:	678 bp
Locus ID:	2947
UniProt ID:	P21266
Cytogenetics:	1p13.3
Domains:	GST_N, GST_C
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	26.4 kDa
Gene Summary:	<p>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. 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, Nov 2008]</p>

Product images:



Circular map for RC201013



Western blot validation of overexpression lysate (Cat# [LY424491]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).