

Product datasheet for RC216501

Glutathione S Transferase theta 2 (GSTT2B) (NM_001080843) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase theta 2 (GSTT2B) (NM_001080843) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glutathione S Transferase theta 2
Synonyms:	GSTT2P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216501 representing NM_001080843 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTAGAGCTGTTTCTTGACCTGGTGTCCCAGCCAGCCGCGCCGTCTACATCTTCGCCAAGAAGA
ATGGCATCCCCTTAGAGCTGCGCACCGTGGATTTGGTCAAAGGGCAGCACAAGAGCAAGGAGTTCTTGCA
GATCAACAGCCTGGGAAACTGCCGACGCTCAAGGATGGTGATTCATCTTGACTGAAAGCTCGGCCATC
CTGATTTACCTGAGCTGTAAGTACCAGACGCCGACCCTGGTATCCATCTGACCTGCAGGCTCGTGCCC
GTGTTTCATGAGTACCTGGGCTGGCATGCCGACTGCATCCGTGGCACCTTTGGTATACCCCTGTGGGTCCA
GGTGTGGGGCCCTCATTGGGGTCCAGGTGCCGAGGAGAAGGTGGAACGCAACAGGACTGCCATGGAC
CAGGCCCTGCAATGGCTGGAGGACAAGTTCTGGGGACAGGCCCTTCTCGCTGGCCAGCAGGTGACAC
TGGCTGATCTCATGGCCCTGGAGGAGCTGATGCAGCCGGTGGCTCTCGGCTATGAACTGTTTGAGGGACG
GCCAGACTGGCAGCATGGCGTGGACGAGTGGAGGCTTTCCTGGGTGCTGAGCTATGCCAGGAGGCCAC
AGCATCATCTTGAGCATCCTGGAACAGCGGCCAAGAAAACCTCCCAACACCCTCACCAGAGGCCATC
AGGCTATGCTGCTTCCAATCGCCAGGATCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216501 representing NM_001080843
 Red=Cloning site Green=Tags(s)

MGLELFLDLVSQPSRAVYIFAKKNGIPELELRTVDLVKGQHKSKFEFLQINSLGKLP LTKDGFILTESSAI
 LIYLSCKYQTPDHWYPSDLQARARVHEYLGWHADCIRGTFGIPLWVQVLGPLIGVQVPEEKVERNRTAMD
 QALQWLEDKFLGDRPFLAGQVTLADLMALEELMQPVALGYELFEGRPRLAAWRGRVEAFLGAELCQEAH
 SIILSILEQAAKKTLPTPSPEAYQAMLLRIARIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001080843

ORF Size: 732 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001080843.2](#)

RefSeq Size: 858 bp

RefSeq ORF: 735 bp

Locus ID: 653689

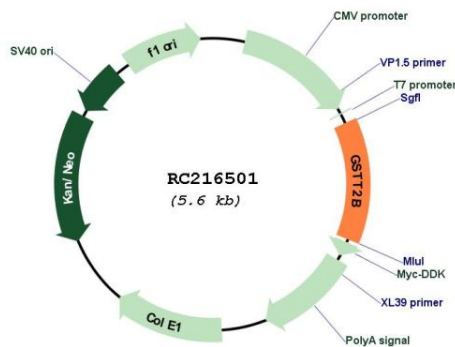
UniProt ID: [P0CG30](#)

Cytogenetics: 22q11.23

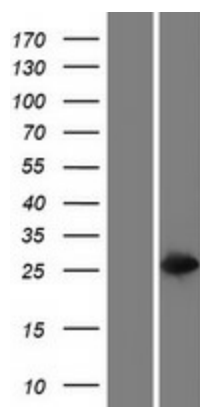
MW: 27.3 kDa

Gene Summary: The protein encoded by this gene, glutathione S-transferase (GST) theta 2B (GSTT2B), is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1, GSTT2, and GSTT2B. GSTT2 and GSTT2B are nearly identical to each other, and share 55% amino acid identity with GSTT1. All three genes may play a role in human carcinogenesis. The GSTT2B gene is a pseudogene in some populations. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC216501



Western blot validation of overexpression lysate (Cat# [LY421126]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216501 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).