

## OriGene Technologies, Inc.

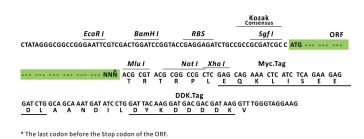
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## Product datasheet for RC200040L3

## Glutathione S Transferase theta 2 (GSTT2) (NM\_000854) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase theta 2 (GSTT2) (NM_000854) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Glutathione S Transferase theta 2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200040).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1         ORF         Mlu I            [GCG ATC GC]C         ATG // NNN         ACG CGT



ACCN: ORF Size: NM\_000854 732 bp



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	Glutathione S Transferase theta 2 (GSTT2) (NM_000854) Human Tagged Lenti ORF Clone – RC200040L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 M	<ul> <li>ethod: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul>
RefSeq:	<u>NM 000854.2, NP 000845.1</u>
RefSeq Size:	1136 bp
RefSeq ORF:	735 bp
Locus ID:	2953
UniProt ID:	<u>P0CG29</u>
Cytogenetics:	22q11.23
Domains:	GST_N, GST_C
Protein Pathways	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	27.5 kDa

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	RC200040L3

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

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