

## Product datasheet for TP308205

### GUCY1B1 (NM\_000857) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human guanylate cyclase 1, soluble, beta 3 (GUCY1B3), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208205 protein sequence Red=Cloning site Green=Tags(s)

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKVLNLNAGEILQMF  
GKMFFVFCQESGYDTILRVLGSNVREFLQNLDALHDHLATIYPGMRAPSRCTDAEKGKGLILHYYSERE  
GLQDIVIGIIKTVAQQIHGTEIDMKVIQQRNEECDHTQFLIEEKESKEEDFYEDLDRFEENGQTQESRISP  
YTFCKAFPFIIFDRDLVVTQCGNAIYRVLPLQPGNCSLLSVFSLVRPHIDISFHGILSHINTVFVLR  
KEGLLDVEKLECEDELGTGTEISCLRLKGMIIYLPADSILFLCSPSVMNLLDDLTRRGLYLSDIPLHDATR  
DLVLLGEQFREEYKLTQELEILTDRLQLTLRALEDEKKTDTLLYSVLPSPVANELRHKRPVPAKRYDNDV  
TILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDTLTDSRKNPFVYKVETVGDYKMYMTVSGLPEPCI  
HHARSICHLALDMMEIAGQVQVDGESVQITIGIHTGEVTVGVIGQRMPCYCLFGNTVNLTSRTETTGEKG  
KINVSEYTYRCLMSPENSDPQFHLEHRGPVSMKGGKKEPMQVWFLSRKNTGTEETKQDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

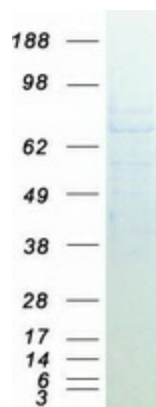
Tag:	C-Myc/DDK
Predicted MW:	70.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000848</a>
<b>Locus ID:</b>	2983
<b>UniProt ID:</b>	<a href="#">Q02153</a>
<b>RefSeq Size:</b>	3261
<b>Cytogenetics:</b>	4q32.1
<b>RefSeq ORF:</b>	1857
<b>Synonyms:</b>	GC-S-beta-1; GC-SB3; GUC1B3; GUCB3; GUCSB3; GUCY1B3
<b>Summary:</b>	This gene encodes the beta subunit of the soluble guanylate cyclase (sGC), which catalyzes the conversion of GTP (guanosine triphosphate) to cGMP (cyclic guanosine monophosphate). The encoded protein contains an HNOX domain, which serves as a receptor for ligands such as nitric oxide, oxygen and nitrovasodilator drugs. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Long-term depression, Purine metabolism, Vascular smooth muscle contraction

### Product images:



Coomassie blue staining of purified GUCY1B1 protein (Cat# TP308205). The protein was produced from HEK293T cells transfected with GUCY1B1 cDNA clone (Cat# [RC208205]) using MegaTran 2.0 (Cat# [TT210002]).