

## Product datasheet for SC313210

### PGGT1B (NM\_005023) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGGT1B (NM_005023) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGGT1B
Synonyms:	BGGI; GGTI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005023 edited  
 ATGGCGGCCACTGAGGATGAGAGGCTAGCAGGGAGCGGTGAGGGAGAGCGGCTGGATTTCTTACGGGATCGGCACGTGCGATTTTTCCAGCGCTGCCTCCAGGTTTTGCCGGAGCGCTATCTTCACTCGAGACAAGCAGGTTGACAATTGCATTTTTTGCACCTCTCCGGGCTGGATATGTTGGATTCCCTTAGATGTGGTGAACAAAGATGATATAATAGAGTGGATTTATCCCTGCAGGTCCTTCCACAGAAGACAGATCAAATCTAAATCGCTGTGGTTTTCCGAGGCTCTTCATACCTGGGTATCCGTTCAATCCATCAAAGGCTCCTGGAACAGCTCATCCTTATGATAGTGGCCACATTGCAATGACCTACACTGGCCTCTCATGCTTAGTTATTCTTGGAGACGACTTAAGCCGAGTAAATAAAGAAGCTTGCTTAGCGGGCTTGAGAGCCCTTCAGCTGGAAGATGGGAGTTTTGTGCAGTACCTGAAGGCAGTGAAAATGACATGCGATTTGTGTACTGTGCTTCCTGTATTTGCTATATGCTCAACAACCTGGTCAGGCATGGATATGAAAAAGCCATCACCTATATTAGAAGGATATGTCCTATGACAATGGACTGGCACAGGGAGCTGGACTTGAATCTCATGGAGGATCAACTTTTTGTGGCATTGCCTCACTATGTCTGATGGGTAAACTAGAAGAAGTTTTTCAGAAAAAGAATTGAACAGGATAAAGAGGTGGTGTATAATGAGGCAACAAAATGGTTATCATGGAAGACCTAATAAGCCTGTAGACACCTGTTATTCTTTTTGGGTGGGAGCAACTCTGAAGCTTAAAAATTTCCAATACACTAACTTTGAGAAAAATAGAAATTACATCTTATCAACTCAAGATCGCCTTGTAGGGGATTTGCCAAGTGGCCAGACAGTCATCCAGATGCTTTGCATGCATACTTTGGGATCTGTGGCCTGTCACTAATGGAGGAAAGTGAATTTGTAAGTTCATCCTGCTGAATGTAAGCACACGGACTTCTGAACGCCTTCTAGATCTCCATCAAAGCTGAAAAACCAAGGACTCTAAACAATGCTCAGAGAATGTACATATCTCCACATGA

Restriction Sites:	Please inquire
ACCN:	NM_005023
Insert Size:	1200 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005023.2.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>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></ol>
<b>RefSeq:</b>	<u><a href="#">NM_005023.2</a></u> , <u><a href="#">NP_005014.1</a></u>
<b>RefSeq Size:</b>	1659 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	5229
<b>UniProt ID:</b>	<u><a href="#">P53609</a></u>
<b>Cytogenetics:</b>	5q22.3
<b>Domains:</b>	prenyltrans
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Protein geranylgeranyltransferase type I (GGTase-I) transfers a geranylgeranyl group to the cysteine residue of candidate proteins containing a C-terminal CAAX motif in which 'A' is an aliphatic amino acid and 'X' is leucine (summarized by Zhang et al., 1994 [PubMed 8106351]). The enzyme is composed of a 48-kD alpha subunit (FNTA; MIM 134635) and a 43-kD beta subunit, encoded by the PGGT1B gene. The FNTA gene encodes the alpha subunit for both GGTase-I and the related enzyme farnesyltransferase.[supplied by OMIM, Mar 2010]