

## Product datasheet for **SC327223**

### **PYGL (NM\_001163940) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PYGL (NM_001163940) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYGL
Synonyms:	GSD6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001163940, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAAGCCCCTGACGGACCAGGAGAAGCGCGGCAGATCAGCATCCGCGGCATCGTG
GGCGTGGAGAACGTGGCAGAGCTGAAGAAGAGTTTCAACCGGCACCTGCACTTACAGCTG
GTCAAGGACCGCAACGTGGCCACCACCCGCGACTACTACTTCGCGCTGGCGCACACGGTG
CGCGACCACCTGGTGGGCGCTGGATCCGCACGCAGCAGCACTACTACGACAAGTGCCCC
AAGCTTGGATTGGATATAGAAGAGTTAGAAGAAATTGAAGAAGATGCTGGACTTGGCAAT
GGTGGTCTTGGGAGACTTGCTGCCTGCTTCTTGGATTCCATGGCAACCTGGGACTTGCA
GCCTATGGATACGGCATTTCGGTATGAATATGGGATTTTCAATCAGAAGATCCGAGATGGA
TGGCAGGTAGAAGAAGCAGATGATTGGCTCAGATATGGAACCCTTGGGAGAAGTCCCGC
CCAGAATTCATGCTGCCTGTGCACTTCTATGGAAGTGAACACACCAACACCGGGACC
AAGTGGATTGACACTCAAGTGGTCTGGCTCTGCCATATGACACCCCGTGCCCGGTAC
ATGAATAACACTGTCAACACCATGCGCCTCTGGTCTGCTCGGGCACCAATGACTTTAAC
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AACATCTCCCGGTCCTCTATCCCAATGACAATTTTTTTGAAGGAAGGAGCTAAGATTG
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TCCAAGTTTGGCTCCACCGTGGTGCAGGAACTGTGTTTATGATGCCTTCCCGGATCAGGTG
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AAGCTGCTCCCTCGACATTTGGAATCATTATGAGATAAATCAGAAGCATTAGATAGA
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GAAGGAAGCAAAAAGGATCAACATGGCCCATCTCTGCATTGTCGGTCCCATGCTGTGAAT
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GACCTGAGCCAGCTGACGAAGCTCCACAGCTTCTGGGTGATGATGTCTTCTCCGGGAA
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AAAGTGAAGATCAACCCATCCTCCATGTTTATGATGTCCAGGTGAAGAGGATACATGAGTAC
AAGCGACAGCTCTTGAAGTGTCTGCATGTGATCACGATGTACAACCGCATTAAAGAAAGAC
CCTAAGAAGTTATTCGTGCCAAGGACAGTTATCATTGGTGGTAAAGCTGCCCCAGGATAT
CACATGGCCAAAATGATCATAAAGCTGATCACTTCAGTGGCAGATGTGGTGAACAATGAC
CCTATGGTTGGAAGCAAGTTGAAAGTCATCTTCTTGGAGAACTACAGAGTATCTTCTGCT
GAAAAAGTCATTCCAGCCACAGATCTGTGAGAGCAGATTTCCACTGCAGGCACCGAAGCC
TCGGGGACAGGCAATATGAAGTTCATGCTAAATGGGGCCCTAACTATCGGGACCATGGAT
GGGGCCAATGTGGAAATGGCAGAAGAAGCTGGGGAAGAGAACCTGTTTCTTGGCATG
AGGATAGATGATGTGGCTGCTTTGGACAAGAAAGGACGAGGCAAAAAGAATACTATGAG
GCACTTCCAGAGCTGAAGCTGGTCAATGATCAAATGACAATGGCTTTTTTCTCCCAAG
CAGCCTGACCTTCAAAGATATCATCAACATGCTATTTTATCATGACAGGTTTAAAGTC
TTTGCAGACTACGAAGCCTATGTCAAGTGTCAAGATAAAGTGAAGTCAAGTGTACATGAAT
CCAAAGGCTGGAACACAATGGTACTCAAAAACATAGCTGCCTCGGGGAAATTCTCCAGT
GACCGAACAAATTAAGAATATGCCAAAACATCTGGAACGTGGAACCTTCAGATCTAAAG
ATTTCTCTATCCAATGAATCTAACAAAGTCAATGGAAAT
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001163940

**OTI Disclaimer:** 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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001163940.1</a></u> , <u><a href="#">NP_001157412.1</a></u>
<b>RefSeq Size:</b>	2757 bp
<b>RefSeq ORF:</b>	2442 bp
<b>Locus ID:</b>	5836
<b>UniProt ID:</b>	<u><a href="#">P06737</a></u>
<b>Cytogenetics:</b>	14q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Insulin signaling pathway, Starch and sucrose metabolism
<b>Gene Summary:</b>	<p>This gene encodes a homodimeric protein that catalyses the cleavage of alpha-1,4-glucosidic bonds to release glucose-1-phosphate from liver glycogen stores. This protein switches from inactive phosphorylase B to active phosphorylase A by phosphorylation of serine residue 15. Activity of this enzyme is further regulated by multiple allosteric effectors and hormonal controls. Humans have three glycogen phosphorylase genes that encode distinct isozymes that are primarily expressed in liver, brain and muscle, respectively. The liver isozyme serves the glycemic demands of the body in general while the brain and muscle isozymes supply just those tissues. In glycogen storage disease type VI, also known as Hers disease, mutations in liver glycogen phosphorylase inhibit the conversion of glycogen to glucose and results in moderate hypoglycemia, mild ketosis, growth retardation and hepatomegaly. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (2) lacks in an in-frame exon in the 5' coding region, compared to variant 1, which results in a shorter isoform (2), compared to isoform 1.</p>