

Product datasheet for **SC116630**

PYGM (NM_005609) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYGM (NM_005609) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYGM
Synonyms:	GSD5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116630 sequence for NM_005609 edited (data generated by NextGen Sequencing)

```
ATGTCCCGGCCCTGTCAGACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCC
GGCGTGGAGAACGTGACTGAGCTGAAAAAGAACTTCAACCGGCACCTGCATTTACACTC
GTAAAGGACCGCAATGTGGCCACCCACGAGACTACTTTTGTCTGGCCATACCGTG
CGCGACCACCTCGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTATGAGAAGGACCC
AAGAGGATCTACTACCTGTCTTTAGAGTTCTATATGGGACGGACGCTACAGAACCACATG
GTGAACCTGGCCTTAGAGAATGCCTGTGACGAGGCCACCTACCAGCTGGGCCTGGACATG
GAGGAGCTGGAGGAAATTGAGGAGGATGCGGGGCTGGGCAACGGGGGCTGGGCCGGCTG
GCAGCCTGCTTTCTTACTCCATGGCAACTGGGCTGGCCGCCTATGGCTACGGGATT
CGCTATGAGTTTGGGATTTTAAACCAGAAGATCTCCGGGGCTGGCAGATGGAGGAGCC
GATGACTGGCTTTCGCTACGGCAACCCCTGGGAGAAGGCCCGCCGAGTTCACGTACCT
GTGCATTCTACGGCCATGTGGAGCACACCAGCCAGGGTGCCAAGTGGGTGGACACACAG
GTGGTACTGGCCATGCCCTACGATACGCCCGTGCCTGGCTATCGCAACAATGTTGTCAAC
ACCATGCGCCTCTGGTCTGCCAAGGCTCCAATGACTTCAACCTCAAGGACTTCAATGTC
GGTGGCTACATCCAGGCTGTGTTGGACCGAAACCTGGCGGAGAACATCTCTCGTGTCTG
TACCCCAATGATAATTTCTTGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTATTTTCGTG
GTGGCTGCCACCCTCCAGGACATCATCCGTCGCTTCAAGTCTTCCAAGTTCGGCTGCCGT
GATCCCGTGGCGACGAACCTTCGATGCCTTCCAGATAAGTGGCCATCCAGCTCAATGAC
ACCCACCCTCCCTGGCCATCCCGAGCTGATGAGGATCTGTTGGACCTGGAACGGATG
GACTGGGACAAGGCGTGGGATGTGACAGTGAGGACCTGTGCCTACACCAACCACACGGTG
CTGCCCCGAGGCCCTGGAGCGCTGGCCGGTGCACCTCTTGGAGACGCTGCTGCCCGGCAC
TCCAGATCATCTACGAGATCAACCAGCGCTTCCCTCAACCGGGTGGCGGCCGATTCCCA
GGGGACGTAGACCGGCTGCGGCGCATGTCGCTGGTGGAGGAGGGCGCAGTGAAGCCCATC
AACATGGCACACCTGTGCATCGCGGGTTCGCACGCCGTCAACGGCGTGGCGCGCATCCAC
TCCGAGATCCTCAAGAAGACCATCTTCAAAGACTTCTATGAGCTGGAGCCTCATAAGTTC
CAGAATAAGACCAACGGCATCACCCCTCGGCGTGGCTGGTTCTGTGTAACCCCGGGCTG
GCAGAGGTCATTGCTGAGCGCATCGGGGAGGACTTCTCTGACCTGGACCAGCTGCGC
AAACTGCTCTCCTTTGTGGATGATGAAGCTTTCATTGGGATGTGGCCAAAGTGAAGCAG
GAAAACAAGTTGAAGTTTGTGCCTACCTAGAGAGGGAATACAAAGTCCACATCAACCC
AACTCACTCTTCGACATCCAGGTGAAGCGGATTACGAATATAAACGACAGCTCCTCAAC
TGCTCCATGTATCACCTGTACAACCGCATCAAGAGGGAGCCAATAAGTTTTTTGTG
CCTCGGACTGTGATGATTGGAGGGAAGGCTGCACCTGGGTACCACATGGCCAAGATGATC
ATCAGACTCGTCACAGCCATCGGGGATGTGGTCAACCATGACCCGGCAGTGGGTGACCGC
CTCCGTGTCTCTTCTGGAGAATACCGAGTCTCACTGGCCGAGAAAGTATCCAGCT
GCAGACCTCTCTGAGCAGATCTCCACTGCGGGCACTGAAGCCTCAGGCACCGGCAACATG
AAGTTCATGCTCAACGGGGCTCTGACCATTTGGCACCATGGACGGGGCCAATGTGGAGATG
GCAGAAGAGGCGGGAGAGGAAAACCTTCTCATCTTTGGCATGCGGGTGGAGGATGTGGAT
AAGCTTGACCAAAGAGGGTACAATGCCAGGAGTACTACGATCGCATTCTGAGCTTCGG
CAGGTCAATTGAGCAGCTGAGCAGTGGCTTCTTCCCCCAACAGCCCGACCTGTTCAAG
GACATTGTCAATATGCTCATGCACCATGACCGGTTTAAAGTCTTTCGAGATTATGAAGAC
TACATTAATGCCAGGAGAAAGTCAAGCGCTTGTACAAGAACCAAGAGAGTGGACGCGG
ATGGTGTCCGGAACATAGCCACCTCTGGCAAGTCTCCAGTGACCGCACCATTGCCAG
TATGCCCGGGAGATCTGGGGTGTGGAGCCTTCCCGCCAGCGCCTGCCAGCCCCGGATGAG
GCCATCTGA
```

Clone variation with respect to NM_005609.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005609 unedited
 GTTGGATTTTGTATACGACTTATATAGGCGGCCGCAATTTCGCACGAGGCTGGAGGCAG
 TGCTGAGGCCCGCTCCCTCTACCATCAGTCCAGTCCGGCCCGCCCTCTGCAGCCATG
 TCCCGGCCCTGTGACACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCCGGC
 GTGGAGAACGTGACTGAGCTGAAAAAGAACTTCAACCGGCACCTGCATTTCACTCGTA
 AAGGACCGCAATGTGGCCACCCACGAGACTACTACTTTGCTCTGGCCCATACCGTGCCG
 GACCACCTCGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTATGAGAAGGACCCCAAG
 AGGATCTACTACCTGTCTTTAGAGTTCTATATGGGACGGACGCTACAGAACCACCATGGTG
 AACCTGGCCTTAGAGAATGCCTGTGACGAGGCCACCTACCAGCTGGGCCTGGACATGGAG
 GAGCTGGAGGAAATTGAGGAGGATGCGGGGCTGGGCAACGGGGCCTGGGCCGGCTGGCA
 GCCTGCTTTCTTGACTCCATGGCAACACTGGGCCTGGCCGCTATGGCTACGGGATTGCG
 TATGAGTTTGGGATTTTAAACCAGAAGATCTCCGGGGCTGGCAGATGGAGGAGGCCGAT
 GACTGGCTTCGCTACGGCAACCCCTGGGAGAAGGCCCGGCCGAGTTCACGCTACCTGTG
 CACTTCTACGGCCATGTGGAGCACACCAGCCAGGGTGCCAAGTGGGGTGACACACANGTG
 GTACTGGCCATGCCCTACGATACGCCCGTCCCTGGCTATCGCAACATGGTTGTCAACACA
 TGGCCTCTGGTCTGCCAAGGCTCCNATGACTTNNCACCTCAGGACTTCAATGTCGTGGC
 TACATCCAGNCTGTGTTGGACCGAAACCTGGCGGAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005609 unedited
 NNNTTTACTCTGGAACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTT
 CCCAGGGAGAATGAATTTATTAGGGAGTGGGTGCAGTTGGTCAGACCCATAAATAGGAG
 GGGACCGGGAGCCCGAGGACGGAAGGGGGCCCGTGTCTTAGTCACGCTGGACACTGGGA
 CATTGAGAGTGGGAAAATGAGGGTTCCAGGAGGGCTTAAAGATCTAACTCCAGTACCC
 CACCCTCTGCATGAGGTGCTGGGGCTGGCCCAAGAGAGTGTGACAGACTCAAGGGCTGGT
 TTGGGGTCTGGTCTGGAGGCTCAAATGGCCTCATCCGGGGCTGGCAGGCGCTGGCGGGAA
 GGCTCCACACCCAGATCTCCCGGCATACTGGGCAATGGTGGCGTCACTGGAGAATTG
 CCAGAGGTGGCTATGTTCCGGATCACCATCCGCGTCCACTCTCTTGGGTTCTTGTACAAG
 GCGCTGACTTTCTCTGGCATTAAATGTAGTCTTCATAATCTGCGAAGACTTTAAACCGG
 TCATGGTGCATGAGCATATTGACAATGTCTTGAACAGGTGCGGCTGTTTGGGGGAGAAG
 AAGCCACTGCTCAGCTGCTCAATGACCTGCCGAAGCTCAGGAATGCGATCGTAGTACTCC
 TGGCATTGTACCCTCTTTGGTCAAGCTTATCCACATCCTCCACCCGATGCCAAAGATG
 AAGAAGTTTTCTCTCCCGCCTTCTGCCATCTCCACATTGGGCCCCGTNATGGTGCC
 ANATGGTCANAGCCCCGTTGAGCATGAACTTNCATGTNGCCGTGCCTGAAGCTTCANTG
 CCCGCAGTGGAGATCTGCTCANAAAGTCTGGAGCTGGGATCACTTCTGGCCAGTGAGAT
 CGGTAGTTCTCCAGGAAGATGACCCGAGCGGGCACCCAT

Restriction Sites:

NotI-NotI

ACCN:

NM_005609

Insert Size:

2780 bp

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).

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:	<ol style="list-style-type: none">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_005609.1 , NP_005600.1
RefSeq Size:	3447 bp
RefSeq ORF:	2529 bp
Locus ID:	5837
UniProt ID:	P11217
Cytogenetics:	11q13.1
Domains:	phosphorylase
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway, Starch and sucrose metabolism
Gene Summary:	<p>This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).</p>