

Product datasheet for **SC327207**

PYGM (NM_001164716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYGM (NM_001164716) Human Untagged Clone
Tag:	Tag Free
Symbol:	PYGM
Synonyms:	GSD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

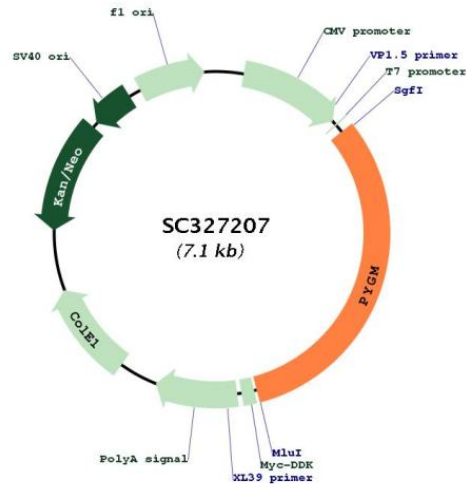
Fully Sequenced ORF: >SC327207 representing NM_001164716.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
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Restriction Sites: Sgfl-Mlul

Plasmid Map:



ACCN: NM_001164716

Insert Size: 2265 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).

OTI Annotation: 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.

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:

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_001164716.1](#)

RefSeq Size: 3369 bp

RefSeq ORF: 2265 bp

Locus ID: 5837

UniProt ID: [P11217](#)

Cytogenetics:	11q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway, Starch and sucrose metabolism
MW:	87.3 kDa
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 (2) lacks two exons uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>