

## Product datasheet for **RG212365**

### **PYGM (NM\_005609) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PYGM (NM_005609) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYGM
Synonyms:	GSD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212365 representing NM\_005609  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCCGGCCCTGTCTCAGACCAAGAGAAAAGAAAGCAAATCAGTGTGCGTGGCCTGGCCGGCGTGGAGA  
 ACGTGACTGAGCTGAAAAAGAACTTCAACCGGCACCTGCATTTCACTCGTAAAGGACCGCAATGTGGC  
 CACCCACGAGACTACTTTTGTCTGTGCCCATACCGTGCAGCACCTCGTGGGGCGCTGGATCCGC  
 ACGCAGCAGCACTACTATGAGAAGGACCCAAAGAGGATCTACTACCTGTCTTTAGAGTTCTATATGGGAC  
 GGACGCTACAGAACACCATGGTGAACCTGGCCTTAGAGAATGCCTGTGACGAGGCCACCTACCAGCTGGG  
 CCTGGACATGGAGGAGCTGGAGGAAATTGAGGAGGATGCGGGGCTGGGCAACGGGGGCTGGGCCGGCTG  
 GCAGCCTGCTTTCTTACTCCATGGCAACTGGCCTGGCCGCTATGGCTACGGGATTCGCTATGAGT  
 TTGGGATTTTTAACAGAAGATCTCCGGGGCTGGCAGATGGAGGAGCCGATGACTGGCTTCGCTACGG  
 CAACCCCTGGGAGAAGGCCCGGCCGAGTTCACGCTACCTGTGCATTCTACGGCCATGTGGAGCACACC  
 AGCCAGGGTGCCAAGTGGGTGGACACACAGGTGGTACTGGCCATGCCCTACGATACGCCCGTGCCTGGCT  
 ATCGCAACAATGTTGTCAACACCATGCGCCTCTGGTCTGCCAAGGCTCCCAATGACTTCAACCTCAAGGA  
 CTTCAATGTGGTGGCTACATCCAGGCTGTGTTGGACGAAACCTGGCGGAGAACATCTCTCGTGTCTGT  
 TACCCCAATGATAATTTCTTGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTATTTCTGGTGGCTGCCA  
 CCCTCCAGGACATCATCCGTCGTTCAAGTCTTCAAGTTCGGCTGCCGTGATCCCGTGCACGAACTT  
 CGATGCCTTCCAGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCCCTGGCCATCCCGAGCTG  
 ATGAGGATCCTGGTGGACCTGGAACGGATGGACTGGGACAAGGCGTGGGATGTGACAGTGAAGGACCTGT  
 CCTACACCAACCACCGGTGCTGCCGAGGCCCTGGAGCGCTGGCCGGTGCACCTTTGGAGACGCTGT  
 GCCGCGGCACCTCCAGATCATCTACGAGATCAACCAGCGCTTCTCAACCGGGTGGCGGCCGATTCCCA  
 GGGGACGTAGACCGGCTGCGGCGCATGTCGCTGGTGGAGGAGGGCGCAGTGAAGCGCATCAACATGGCAC  
 ACCTGTGCATCGCGGGTGCACGCCGTCACGGCGTGGCGCGCATCCACTCCGAGATCCTCAAGAAGAC  
 CATCTTCAAAGACTTCTATGAGCTGGAGCCTCATAAGTTCAGAAATAAGACCAACGGCATCACCCCTCGG  
 CGCTGGCTGGTTCTGTGAACCCGGGCTGGCAGAGGTCATTGCTGAGCGCATCGGGGAGGACTTCACT  
 CTGACCTGGACCAGCTGCGCAAACCTGCTCTCCTTTGTGGATGATGAAGCTTTCATTCGGGATGTGGCCAA  
 AGTGAAGCAGGAAAACAAGTTGAAGTTTGTGCCTACCTAGAGAGGGAATACAAAGTCCACATCAACCCC  
 AACTCACTCTTCGACATCCAGGTGAAGCGGATTCACGAATATAAACGACAGCTCCTCAACTGCCTCCATG  
 TCATCACCTGTACAACCGCATCAAGAGGGAGCCCAATAAGTTTTTTGTGCCTCGGACTGTGATGATTGG  
 AGGGAAGGCTGCACCTGGGTACACATGGCCAAGATGATCATCAGACTCGTCACAGCCATCGGGGATGTG  
 GTCAACCATGACCCGGCAGTGGGTGACCGCCTCCGTGTCATCTTCTGGAGAACTACCGAGTCTCACTGG  
 CCGAGAAAGTGATCCCAGCTGCAGACCTCTCTGAGCAGATCTCCACTGCGGGCACTGAAGCCTCAGGCAC  
 CGGCAACATGAAGTTCATGCTCAACGGGCTCTGACCATTTGGCACCATGGACGGGGCCAATGTGGAGATG  
 GCAGAAGAGGGCGGAGAGGAAAACCTTCTCATCTTTGGCATGCGGGTGGAGGATGTGGATAAGCTTGACC  
 AAAGAGGGTACAATGCCAGGAGTACTACGATCGATTCTGAGCTTCGGCAGGTCATTGAGCAGCTGAG  
 CAGTGGCTTCTTCTCCCCAAACAGCCGACCTGTTCAAGGACATTGTCAATATGCTCATGCACCATGAC  
 CGGTTTTAAAGCTTCGCAGATTATGAAGACTACATTAATGCCAGGAGAAAGTCAGCGCCTTGACAAGA  
 ACCCAAGAGAGTGGACGCGGATGGTATCCGGAACATAGCCACCTCTGGCAAGTTCTCCAGTGACCGCAC  
 CATTGCCAGTATGCCGGGAGATCTGGGGTGTGGAGCCTTCCGCCAGCGCCTGCCAGCCCGGATGAG  
 GCCATC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG212365 representing NM\_005609  
Red=Cloning site Green=Tags(s)

MSRPLSDQEKRKQISVRGLAGVENVTELKKNFNRHLHFTLVKDRNVATPRDYFFALAHTVRDHLVGRWIR  
TQQHYEYKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDMEELEEIEEDAGLGNGGLGRL  
AACFLDSMATLGLAAYGYGIRYEFGI FNQKISGGWQMEEDWLRYGNPWEKARPEFTLPVHFYGHVEHT  
SQGAKWVDTQVVLAMPYDTPVPGYRNNVNTMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVL  
YPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKSSKFGCRDPVRTNFDAFPDKVAIQLNDRNLAENISRVL  
MRILVDLERMDWDKAWDVTVRTCAYTNHTVLPALERWPVHLETLPRHLQIIYEINQRFLNRVAAAF  
GDVDRRLRMSLVEEGAVKRINMAHL CIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKFQNKNGITPR  
RWLVLCNPGLAEVIAERIGEDFISDLQLRKLLSFVDDEAFIRDVAKVKQENKLF AAYLERYKVHINP  
NSLFDIQKRIHEYKRQLLNCLHVITL YNRIKREPKNFFVPRVMIGGKAAPGYHMAKMIIRLVTAIGDV  
VNHDPAVGDRLRVIFLENYRVSLAEKVIPAADLSEQISTAGTEASGTGMKFMNGALTIGTMDGANVEM  
AEEAGEENFFIFGMRVEDVDKLDQRGYNAQEYYDRIPELRQVIEQLSSGFFSPKQPDLFKDIVNMLMHH  
RFKVFADYEDYIKCQEKVSALYKNPREWTRMIRNIATSGKFSDDRTIAQYAREIWGVPSRQLPAPDE  
AI

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_005609.4](#)

**RefSeq Size:** 3447 bp

**RefSeq ORF:** 2529 bp

**Locus ID:** 5837

**UniProt ID:** [P11217](#)

**Cytogenetics:** 11q13.1

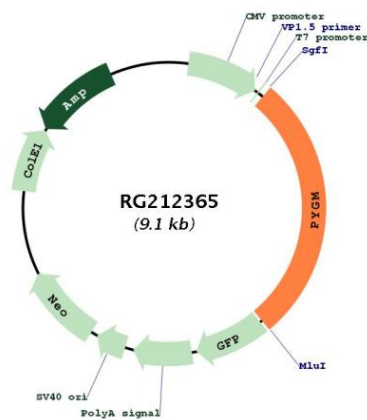
**Domains:** phosphorylase

**Protein Families:** Druggable Genome

**Protein Pathways:** Insulin signaling pathway, Starch and sucrose metabolism

**Gene Summary:** 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]

### Product images:



Circular map for RG212365