

Product datasheet for **MG210923**

Pygm (NM_011224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pygm (NM_011224) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pygm
Synonyms:	A1115133; P; PG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210923 representing NM_011224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGGCCTCTTTCAGACCAGGATAAGAGAAAAGCAAATCAGCGTTCGTGGCTTAGCCGGAGTGGAAA
 ATGTGTCGGAGCTAAAAAAGAACTTCAACCGCCACCTGCATTTACCTTGGTCAAGGATCGCAATGTGGC
 TACTCCGAGAGATTAATAATTTTGCCTGCGCCACACTGTCGGGACCACCTCGTGGGACGCTGGATCCGC
 ACACAGCAGCATTACTACGAAAAGGACCCCAAGAGGATCTACTACCTGTCTTTGGAGTTCTACATGGGCC
 GGACACTGCAGAACACCATGGTGAACCTGGCCTTGGAGAAGCCTGTGATGAGGCCACTTACCAGCTGGG
 CTTGGACATGGAGGAGTTGGAGGAGATCGAGGAGGATGCAGGGTTGGCAATGGGGCCTGGGACGCTG
 GCAGCTTGCTTTTGGACTCCATGGCTACCCTGGGGCTCGCTGCCTATGGCTATGGGATCCGCTATGAGT
 TTGGGATTTTTAATCAGAAGATCTGTGGGGCTGGCAGATGGAAGAAGCTGATGACTGGCTTCGCTATGG
 CAACCCCTGGGAGAAGGCCCGCCAGAGTTACGCTGCCTGTGCATTTCTATGGCCGAGTGGAGCACACC
 AGCCAGGGTGCCAAGTGGGTGGACACACAGGTAGTGTGGCTATGCCCTATGACACTCCTGTGCCGGCT
 ATCGGAACAACGTCGTCAACACCATGCGCCTCTGGTCCGCAAGGCACCTAACGACTTCAACCTCAAGGA
 CTTCAATGTTGGCGGCTACATCCAGGCTGTGCTGGACCGAAACCTGGCTGAGAACATCTCGCGTGTTTTG
 TACCCCAATGATAATTTCTTTGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTTTGTGGTGGCTGCCA
 CCCTCCAGGACATCATCCGGCGTTTCAAGTCTCCAAGTTTGGCAGCCGTGATCCTGTGCGCACAAACTT
 CGATGCCTTCCCTGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCTTTGGCCATCCAGAGCTG
 ATGAGGATCTGGTGGACCTGGAACGACTGGACTGGGACAAGGCCTGGGACGTAAACAGTGAAGACCTGTG
 CCTAACCAACACACGGTGTGCTGAAGCCCTGGAGCCTGGCCAGTGCACCTCATGGAGACACTGCT
 GCCCCGCCACTTGCAGATCATTACGAGATCAACCAGCGTTTCTTAACCGGGTGGCGGCTGCATTCCTT
 GGGGACGTAGATAGGCTGCGGCGCATGTCACTCGTGGAGGAAGGAGCAGTAAAACGCATCAACATGGCAC
 ACCTGTGCATTGCTGGCTCGCACGCTGTCAACGGCGTGGCTCGCATCCATTTCGGAGATCCTCAAGAAAAC
 CATCTTCAAGGACTTTTTATGAGCTGGAGCCTCACAAAGTTCAGAAACAAGACCAATGGCATCACTCCTCGG
 CGCTGGCTGGTTCTGTGAACCTGGGCTGGCAGAGGTCATTGCTGAGCGCATTGGTGGAGACTACATCT
 CAGACCTGGACCAGTGCAGCAAGCTGCTCCTATGTGGATGATGAAGCCTTTATCCGTGATGTGGCCAA
 AGTGAAAACAGGAAAACAAGTTGAAGTTCTCTGCATACCTCGAGAGGGAATACAAAGTCCACATCAACCCC
 AACTCGCTCTTCGACGTCCAGGTGAAAAGGATTATGAGTACAAGCGGCAGCTCCTCAACTGCCTGCACA
 TCATCACCTTGATAACCGCATCAAAAGGGAGCCCAATAGGTTTATGGTCCGAGGACTATCATGATTGG
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 GTCAACACGACCCCTGCGGTAGGAGACCGCCTCCGAGTGTCTTCTGGAGAACTACCGAGTCTCCCTTG
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 TGGCAACATGAAGTTCATGCTCAATGGGCTCTGACCATCGGCACCATGGACGGTGGCAACGTGGAGATG
 GCAGAGGAGGCGGGGAGGAGAATTCTTATCTTCGGCATGCGAGTGGAGGACGTGGAAAGGCTGGACC
 AGAGAGGGTACAATGCCAGGAGTACTACGACCGAATTCCTGAGCTTCGGCAGATCATCGAACAGCTAAG
 CAGCGGCTTCTTCTCCCAAGCAGCCTGACCTGTTCAAGGACATTGTCAATATGCTCATGCACCATGAC
 CGGTTTTAAAGTCTTTCAGATTATGAGGAATACATTAATGCCAGGACAAAGTCAGTGAAGTTGTACAAGA
 ACCCAAGAGAGTGGACACGGATGGTGTGATCAGGAACATAGCCACCTCTGGCAAGTTTTCCAGTGAACGAC
 CATTGCCAGTATGCCGGGAGATCTGGGGTGTGAACCTTCTGCCAGCGCCTGCCAGCCCCAGATGAG
 AAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210923 representing NM_011224
Red=Cloning site Green=Tags(s)

MSRPLSDQDKRKQISVRGLAGVENVSELKKNFNRHLHFTLVKDRNVATPRDYFFALAHTVRDHLVGRWIR
TQQHYEKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDMEELEEIEEDAGLGNGGLGRL
AACFLDSMATLGLAAYGYGIRYEFGI FNQKICGGWQMEEADDWLRYPGNPWEKARPEFTLPVHFYGRVEHT
SQGAKWVDTQVVLAMPYDTPVPGYRNNVVNTMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVL
YPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKSSKFGSRDPVRTNFDAFPDKVAIQLNDRNLAENISRVL
MRILVDLERLDWDKAWDVTVKTCAYTNHTVLPALERWPVHLMETLLPRHLQIIEINQRFLNRVAAAF
GDVDRRLRMSLVEEGAVKRINMAHL CIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKFQNKNGITPR
RWLVLCNPGLAEVIAERIGEDYISDLQLRKLLSYVDDEAFIRDVAKVKQENKLF SAYLERYKVHINP
NSLFDVQVKRIHEYKRQLLNCLHIITLYNRIKREP NRMVPRTIMIGGKAAPGYHMAKMI IKLITAI
GDV VNHDPVAGDRLRVIFLENYRVSLAEKVIPAADLSEQISTAGTEASGTGMKFMNGALTIGTMDGANVEM
AEEAGEENFFIFGMRVEDVERLDQRGYNAQEYYDRIPELRQIEQLSSGFFSPKQPDLFKDIVNMLMHH
RFKVFADYEEYIKCQDKVSELYKNPREWTRMIRNIATSGKFS SDRTIAQYAREI WGVPSRQLPAPDE
KI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_011224

ORF Size: 2526 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011224.1](#), [NP_035354.1](#)

RefSeq Size: 2874 bp

RefSeq ORF: 2529 bp

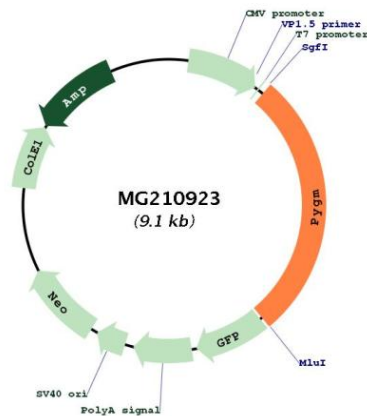
Locus ID: 19309

UniProt ID: [Q9WUB3](#)

Cytogenetics: 19 4.53 cM

Gene Summary: This gene encodes a glycolysis enzyme found in muscle. Highly similar enzymes encoded by different genes are found in liver and brain. The encoded protein is involved in regulating the breakdown of glycogen to glucose-1-phosphate, which is necessary for ATP generation. [provided by RefSeq, Dec 2015]

Product images:



Circular map for MG210923