

Product datasheet for **MR210923**

Pygm (NM_011224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pygm (NM_011224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pygm
Synonyms:	A1115133; P; PG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210923 representing NM_011224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGGCCTCTTTCAGACCAGGATAAGAGAAAGCAAATCAGCGTTCGTGGCTTAGCCGGAGTGGAAA
 ATGTGTCGGAGCTAAAAAAGAACTTCAACCGCCACCTGCATTTACCTTGGTCAAGGATCGCAATGTGGC
 TACTCCGAGAGATTAATAATTTTGCCTGCGCCACACTGTCGGGACCACCTCGTGGGACGCTGGATCCGC
 ACACAGCAGCATTACTACGAAAAGGACCCCAAGAGGATCTACTACCTGTCTTTGGAGTTCTACATGGGCC
 GGACACTGCAGAACACCATGGTGAACCTGGCCTTGGAGAAGCCTGTGATGAGGCCACTTACCAGCTGGG
 CTTGGACATGGAGGAGTTGGAGGAGATCGAGGAGGATGCAGGTTGGCAATGGGGCCTGGGACGCTG
 GCAGCTTGCTTTTGGACTCCATGGCCACCCTGGGCTCGCTGCCTATGGCTATGGGATCCGCTATGAGT
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 CAACCCCTGGGAGAAGGCCCGCCAGAGTTACGCTGCCTGTGCATTTCTATGGCCGAGTGGAGCACACC
 AGCCAGGGTGCCAAGTGGGTGGACACACAGGTAGTGTGGCTATGCCCTATGACACTCCTGTGCCGGCT
 ATCGGAACAACGTCGTCAACACCATGCGCCTCTGGTCCGCAAGGCACCTAACGACTTCAACCTCAAGGA
 CTTCAATGTTGGCGGCTACATCCAGGCTGTGCTGGACCGAAACCTGGCCGAGAACATCTCGCGTGTTTTG
 TACCCCAATGATAATTTCTTTGAAGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTTTGTGGTGGCTGCCA
 CCCTCCAGGACATCATCCGACGTTTCAAGTCTCCAAGTTTGGCAGCCGTGATCCTGTGCGCACAAACTT
 CGATGCCTTCCCTGATAAGGTGGCCATCCAGCTCAATGACACCCACCCCTCTTTGGCCATCCAGAGCTG
 ATGAGGATCTGGTGGACCTGGAACGACTGGACTGGGACAAGGCCCTGGGACGTAACAGTGAAGACCTGTG
 CCTAACCAACACACGGTGTGCTGCTGAAGCCCTGGAGCCTGGCCAGTGCACCTCATGGAGACACTGCT
 GCCCCGCCACTTGCAGATCATTTACGAGATCAACCAGCGTTTCTTAACCGGGTGGCGGCTGCATTCCTT
 GGGGACGTAGATAGGCTGCGGCGCATGTCACTCGTGGAGGAAGGAGCAGTAAAACGCATCAACATGGCAC
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 CATCTTCAAGGACTTTTATGAGCTGGAGCCTCACAAAGTCCAGAACAAGACCAATGGCATCACTCCTCGG
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 AGTGAAAACAGGAAAACAAGTTGAAGTCTCTGCATACCTCGAGAGGGAATACAAAGTCCACATCAACCCC
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 TCATCACCTTGATAACCGCATCAAAAGGGAGCCCAATAGGTTTATGGTCCGAGGACTATCATGATTGG
 AGGCAAGGCTGCACCCGGTACCACATGGCTAAGATGATCATCAAGCTTATCACTGCCATTGGGGATGTG
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 CGGTTTAAAGTCTTTGCAGATTATGAGGAATACATTAATGCCAGGACAAAGTCAGTGAGTTGTACAAGA
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 AAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210923 representing NM_011224
 Red=Cloning site Green=Tags(s)

MSRPLSDQDKRKQISVRGLAGVENVSELKKNFNRLHFTLVKDRNVATPRDYFALAHTRVDRHLVGRWIR
 TQQHYEYKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDMEELEEIEEDAGLGNGLGRL
 AACFLDSMATLGLAAYGYGIRYEFGIQKICGGWQMEEDDLRYGNPWEKARPEFTLPVHFYGRVEHT
 SQGAKWVDTPVVLAMPYDTPVPGYRNNVNTMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVL
 YPNDNFEGKELRLKQYFVVAATLQDIIRRFKSSKFGSRDPVRTNDFADPKVAIQLNDRNLAENISRVL
 MRILVDLERLDWDKAWDVTVKTCAYTNHTVLPALERWPVHLMETLLPRHLQIIEINQRFLNRVAAAF
 GDVDRRLRMSLVEEGAVKRINMAHLIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKFQKNTNGITPR
 RWLVLCNPGLAEVIAERIGEDYISDLQRLKLLSYVDDEAFIRDVAKVKQENKLF SAYLERYKVHINP
 NSLFDVQVKRIHEYKRQLLNCLHIITLYNRIKREPFRMVPRTIMIGGKAAPGYHMAKMIKLIITAGDV
 VNHDPAVGDRLRVIFLENYRVS LAEKVIPAADLSEQISTAGTEASGTGMMKFMNGALTIGTMDGANVEM
 AEEAGEENFFIFGMRVEDVERLDQRGYNAQEYYDRIPELRQIEQLSSGFFSPKQPDFKDIVNMLMHH
 RKFVFADYEEYIKCQDKVSELYKNPREWTRMIRNIATSGKSSDRTIAQYAREIWGVEPSRQLPAPDE
 KI

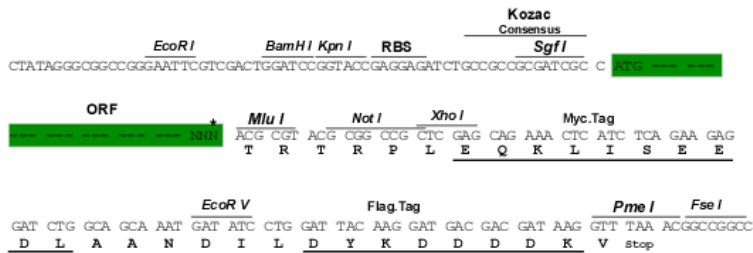
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

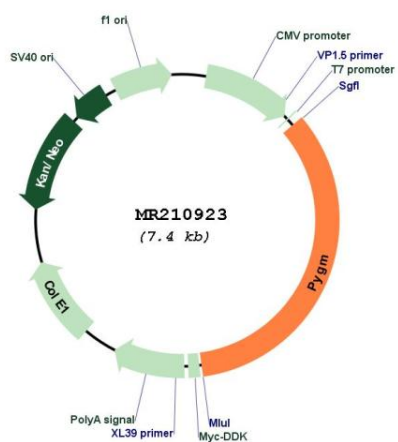
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:	<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_011224.2
RefSeq Size:	2874 bp
RefSeq ORF:	2529 bp
Locus ID:	19309
UniProt ID:	Q9WUB3
Cytogenetics:	19 4.53 cM
MW:	97.7 kDa
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 MR210923