

## Product datasheet for **RR209227**

### Pygm (NM\_012638) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pygm (NM_012638) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pygm
Synonyms:	Muscpho
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RR209227 representing NM\_012638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCAGGCCTCTTTCAGACCAGGATAAGAGAAAAGCAAATCAGTGTTCGTGGCCTAGCTGGCGTGGAAA  
 ATGTGTCTGACCTGAAAAAGAACTTCAACCGCCACCTACATTTACCCCTGGTCAAGGATCGCAATGTGGC  
 CACTCCGAGAGATTACTATTTTCGCACTGGCTCACACCGTGCGGGACCACCTCGTGGGACGCTGGATCCGC  
 ACACAGCAGCATTACTACGAAAAGGACCCCAAGAGGATCTACTACCTGTCTTTGGAGTTCTACATGGGGA  
 GGACACTGCAGAACACCATGGTGAACCTGGCCTTGGAGAATGCCTGCGATGAGGCCACCTACCAGCTGGG  
 TCTGGACATGGAGGAGCTGGAGGAGATCGAGGAGGATGCAGGGTTGGCAATGGAGGCCTGGGACGCTG  
 GCAGCTTGCTTCCTGGACTCCATGGCTACACTGGGGCTAGCTGCCTATGGCTACGGGATCCGCTATGAGT  
 TTGGGATTTTTAATCAGAAGATCTGTGGGGCTGGCAGATGGAAGAAGCTGATGACTGGCTTCGCTATGG  
 CAACCCCTGGGAGAAGGCCCGCCAGATTACCGCTGCCTGTGCATTCTACGGTCGAGTGGAGCACACC  
 AGTCAGGGTGCCAAGTGGGTGGACACACAGGTAGTGTGGCTATGCCCTATGACACTCCTGTGCCTGGCT  
 ATCGAAAACAACGTTGTCAACACCATGCGCCTCTGGTCCGCAAGGCACCTAATGACTTCAACCTCAAGGA  
 CTTCAACGTTGGCGGCTACATCCAGGCCGTGCTGGACCGAAACCTGGCTGAGAACATCTCACGTGTTTTG  
 TACCCCAATGATAACTTCTTTGAAGGGAAGGAATTGCGGCTGAAGCAGGAGTACTTTGTGGTGGCCGCCA  
 CCCTCCAGGACATCATTCCGCGTTTCAAGTCTCCAAGTTTGGCTGCCGTGATCCTGTGCCGACAAACTT  
 TGATGCTTCCCTGATAAGGTGGCCATCCAGCTCAACGACACCCACCTTCTTTGGCCATCCCTGAACCTG  
 ATGAGGATCTGGTGGACCTGGAACGACTGGACTGGGACAAGGCCTGGGATGTGACAGTGAAGACCTGTG  
 CCTCAACCAACCACACAGTGCCTGCCTGAAGCCCTGGAGCCTGGCCAGTGCACCTCATGGAGCACTGCT  
 TCCCCGCCATCTGCAGATCATTATGAGATCAACCAGCGTTTCTTAATCGGGTGGCGGCCGATCCCT  
 GGGGACGTAGATAGGCTGCGGCGCATGTCACTCGTGGAGGAAGGAGCGGTGAAACGCATCAACATGGCAC  
 ACTTGTGCATTGCTGTTCCACGCAGTCAACGGTGTGGCTCGCATCCATTCCGAGATCCTCAAGAAAAAC  
 CATCTTCAAGGACTTTTTAGAGCTGGAGCCTCACAAAGTCCAGAACAAGACCAATGGCATCACCCCTCGG  
 CGCTGTTGTTCTGTGTAACCTGGGCTGGCAGAGGTCATTGCTGAGCGCATCGGTGAGGAGTACATCT  
 CGGATCTGGACCAGCTACGCAAGCTGCTCCTATGTGGATGATGAAGCCTTTATCCGTGATGTGGCCAA  
 AGTGAAACAGGAAAACAAGTTGAAATCTCTGCGTACCTGGAGAGGGAATACAAAGTCCACATCAACCCC  
 AACTCCCTCTTCGACGTCCAGGTGAAGAGGATTATGAGTATAAACGCCAGCTTCTCAATTGCCTTCACA  
 TCATCACCTTGTATAACCGCATCAAAGGGAGCCCAATAGGTTTATGGTCCGCAAGGACTATCATGATTGG  
 AGGCAAGGCTGCACCCGGTACCACATGGCTAAGATGATCATCAAGCTTATCACCGCCATTGGGGATGTG  
 GTCAACCACGACCTGCGGTGGGAGACCGCTCCGAGTATCTTCTGGAGAACTACCGAGTCTCACTGG  
 CTGAGAAAGTTATTTCCGCTGCTGACCTCTCAGAGCAGATCTCCACCGCGGGCACTGAGGCCCTCAGGCAC  
 TGGCAACATGAAGTTCATGCTCAACGGGCTCTGACCATCGGCACCATGGATGGTCCCAACGTGGAGATG  
 GCAGAGGAGGCTGGGGAAGATAACTTCTCATCTTCGGCATGCGGGTGGAGGACGTGGAAGGCTGGACC  
 AGAGAGGGTACAATGCCAGGAATACTACGACCGGATTCCTGAGCTTCGGCAGATCATCGAACAGTTAAG  
 CAGTGGCTTCTTCTCCCCTAAACAGCCTGACCTGTTCAAGGACATCGTCAACATGCTCATGCACCATGAC  
 CGGTTTTAAAGCTTTGCAGATTATGAGGAATACATTAATGCCAGGACAAAGTCAGTGAGTTGTACAAGA  
 ACCCAAGAGAGTGGACACGGATGGTATCAGGAACATAGCCACCTCTGGCAAGTTTTCCAGTGACCGTAC  
 CATTGCCAGTATGCCGGGAGATCTGGGGTGTGAACCTTCTCGTCAGCGCCTGCCAGCCCCAGATGAG  
 AAGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209227 representing NM\_012638  
Red=Cloning site Green=Tags(s)

MSRPLSDQDKRKQISVRGLAGVENVSDLKKNFNRHLHFTLVKDRNVATPRDYFFALAHTVRDHLVGRWIR  
TQQHYEYKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDMEELEEIEEDAGLGNGGLGRL  
AACFLDSMATLGLAAYGYGIRYEFGI FNQKICGGWQMEEDWLRYPGNPWEKARPEFTLPVHFYGRVEHT  
SQGAKWVDTQVVLAMPYDTPVPGYRNNVVNTMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVL  
YPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKSSKFGCRDPVRTNFDAFPDKVAIQLNDRNLAENISRVL  
MRILVDLERLDWDKAWDVTVKTCAYTNHTVLPALERWPVHLMETLLPRHLQIIYEINQRFLNRVAAAF  
GDVDRRLRMSLVEEGAVKRINMAHL CIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKFQNKTNGITPR  
RWLVLCNPGLAEVIAERIGEEYISDLQLRKLLSYVDDEAFIRDVAKVKQENKLF SAYLERYKVHINP  
NSLFDVQVKRIHEYKRQLLNCLHIITLYNRIKREP NRMVPRTIMIGGKAAPGYHMAKMI IKLITAI  
GDV VNHDPVAGDRLRVIFLENYRVSLAEKVIPAADLSEQISTAGTEASGTGMKFMNGALTIGTMDGANVEM  
AEEAGEDNFFIFGMRVEDVERLDQRGYNAQEYYDRIPELRQIIIEQLSSGFFSPKQPDLFKDIVNMLMHH  
RFKVFADYEEYIKCQDKVSELYKNPREWTRMVI RNIATSGKFS SDRTIAQYAREI WGVPSRQLPAPDE  
KI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

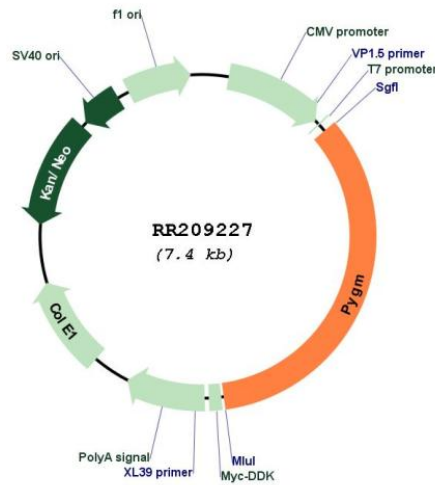
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_012638
<b>ORF Size:</b>	2526 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012638.1</a> , <a href="#">NP_036770.1</a>
<b>RefSeq Size:</b>	2862 bp
<b>RefSeq ORF:</b>	2529 bp
<b>Locus ID:</b>	24701
<b>Cytogenetics:</b>	1q43
<b>MW:</b>	97.3 kDa
<b>Gene Summary:</b>	catalyzes the hydrolysis of intracellular glycogen [RGD, Feb 2006]