

Product datasheet for **RR206321**

Pygl (NM_022268) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pygl (NM_022268) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pygl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206321 representing NM_022268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAAGCCCTTGACCGACCAGGAAAAGCGACGGCAGATCAGCATCCGCGGCATCGTGGGCGTGGAGA
 ACGTAGCGGAGCTGAAAAAGGGCTTCAATCGTCACCTGCACTTCACTCTGGTCAAGGACCGCAATGTGGC
 CACCCCCCGGACTACTACTTCGCCCTTGCACACAGTGCACGACACCTGGTGGGCGCTGGATCCGC
 ACACAGCAGCACTACTATGACAAGTGCCCAAGAGGGTATTACCTCTCTGGAATTTTACATGGGCC
 GAACATTACAGAACCATGATCAACCTTGGCTTACAGAATGCCTGCGACGAAGCTATTTACCAGCTCGG
 GCTGGACATGGAGGAGTTGGAAGAAATTGAAGAAGATGCTGGGCTTGGCAATGGTGGTCTTGGGAGGCTT
 GCTGCCTGCTTCTGGACTCCATGGCAACGCTGGGCTTGCAGCCTATGGATACGGCATCCGTTATGAAT
 ATGGAATCTTCAATCAGAAGATCCGAGAAGGGTGGCAGGTAGAGGAGGCAGATGACTGGCTCAGGCATGG
 AAACCTTGGGAGAAGGCTCGTCTGAATTCATGCTGCCTGTGCATTTCTACGGAAGAGTAGAGCACACC
 CAGGCAGGAACAAAGTGGTTCGACACCCAGGTGGTGTGGCTTTGCCGTACGACACCCCCGTACCTGGGT
 ATATGAACAACACGGTGAACACTATGCGCCTCTGGTCCGCCGAGCACCAATGACTTTAACCTTCAAGA
 CTTAATGTCCGAGACTACATTCAGGCTGTGCTGGACCGAACCTGGCTGAGAATATCTCCAGAGTGCTG
 TACCCCAACGATAACTTTTTGAAGGGAAGGAGCTGAGGCTGAAGCAGGAGTACTTTGTGGTGGCTGCGA
 CCCTGCAGGATGTCATCCGACGTTTCAAGGCCCAAGTTCGGCTCCAAGGATGGTGTAGGAACCGTGT
 TGATGCTTTTCCAGATCAGGTAGCCATCCAGCTGAATGACACACATCCCGCACTCGCCATCCCGGAGCTG
 ATGAGGATCTTTGGACATTGAAAAATTGCCCTGGTCCAAGGCCCTGGAGCAGTGGCAGTGGACCTGGTGGAGAAGCTGT
 CCTACCAACCAACACCGGTGCTCCCGGAGGCCCTGGAGCAGTGGCAGTGGACCTGGTGGAGAAGCTGT
 GCCTCGACACTTGCAGATCATTATGAGATCAATCAGAAGCATTAGATAGAATCGTGGCCCTGTTTCT
 AAAGACATCGACCGCATGCGGGGATGTCTCTCATCGAAGAGGAAGGAGGCAAAAGGATCAACATGGCCC
 ACCTCTGCATCGTGGGCTGCCACGCGGTGAACGGGGTAGCGAAGATCCACTCGGACATCGTGAAGACCCA
 AGTATTCAAGGACTTCAGTGAGCTAGAACCAGACAAGTTCAGAAATAAAACCAACGGGATCACCCCGAGG
 CGCTGGCTCTTACTCTGCAACCCAGGGCTGGCTGACTTGTAGCAGAGAAAATTGGAGAAGACTATGTGA
 AAGACCTGAGCCAGCTGACGAAGCTCCACAGCTTCGTGGGCGACGACATCTTCCGGGAAATAGCCAA
 AGTGAAGCAGGAAAATAAACTGAAATTCCTCCAGTTCCTGGAAAAGGAGTACAAGGTGAAGATCAACCCA
 TCTTCCATGTTTACGTGCACGTGAAGCGGATCCACGAGTACAAACGACAGCTTCTGAAGTGCCTGCATG
 TGATCACCATGTACAATCGCATCAAGAAAGACCCTAAGAAGTCTTCGTGCCAAGGACAGTCATAATTGG
 TGGGAAAGCTGCCCCAGGATATCACATGGCCAAAATGATCATAAAGCTGGTACCTCCGTGGCAGAAGTG
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 CTGAAAAAGTCATTCCAGCCACGGACCTGTGAGAACAGATCTCCACTGCTGGCACGGAAGCCTCGGGGAC
 GGGCAACATGAAGTTCATGCTGAACGGGGCCCTGACCATCGGGACTATGGATGGGGCCAATGTGGAGATG
 GCGGAGGAGGCCGGGAGGAAAACCTGTTATCTTTGGCATGAGGGTAGATGATGTGGCCGCTCTGGACA
 AGAAAGGGTATGAGGCCAAAGAATATTATGAGGCCCTTCCAGAAGTGAAGCTGGTATTGACCAAAATTGA
 CAATGGCTTCTTTCTCCAATCAGCCAGACCTTCAAAGACATCATCAACATGTTATTTTATCATGAC
 AGATTTAAAGTCTTTCAGACTACGAAGCCTATGTCAAGTGTCAAGAAAAAGTCAGTCAGCTGTATATGA
 ATCAAAAAAGCCTGGAACAACATGTTCTCAGAAACATAGTGCCTCGGGGAAAGTCTCCAGTGACCGAAC
 AATCAGGGAGTATGCCAAGGACATCTGGAACATGGAGCCTCCGATCTGAAGATCTCCCTATCTAAGGAG
 TCCAGCAATGGGGTCAACGCCAATGGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206321 representing NM_022268
Red=Cloning site Green=Tags(s)

MAKPLTDQEKRRQISIRGIVGVENVAELKKGFNRLHFTLVKDRNVATPRDYFALAHTVRDHLVGRWIR
TQQHYDYKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDMEELEEIEEDAGLGNGGLGRL
AACFLDSMATLGLAAYGYGIRYEYGI FNQKIREGWQVEEADDWLRHGPNWEKARPEFMLPVHFGYGRVEHT
QAGTKWVD TQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLQDFNVGDYIQAVLDRNLAENISRVL
YPNDNFFEGKELRLKQEYFVVAATLQDVIRRFKASKFGSKDGVGTVFDAFPDQVAIQLNDRNLAENISRVL
MRIFVDIEKLPWSKAWIEITKKTFAITNHTVLPALERWPVDLVEKLLPRHLQIIYEINQKHLDRIVALFP
KDIDRMRRMSLIEEEGGKRINMAHLCIVGCHAVNGVAKIHSDIVKTQVFKDFSELEPKFKQKTNGITPR
RWLLLCNPGLADLIAEKIGEDYVKDLSQLTKLHSFVGDDIFLREIAKVKQENKLFKSFLEKEYKVKINP
SSMFDVHVKRIHEYKRQLLNCLHVITMYNRIKKDPKFFVPRTVIIGGKAAPGYHMAKMI IKLVTSVAEV
VNNDPMVGSKLKVI FLENYRVSLAEKVIPATDLSEQISTAGTEASGTGMKFMNGALTIGTMDGANVEM
AEEAGEENLFI FGMRVDDVAALDKKGYEAKYYEALPELKLVIDQIDNGFFSPNQPD LFKDIINMLFYHD
RFKVFADYEAYVKCQEKVSQLYMNQAWNTMVLRNIAASGKFSDDRTIREYAKDIWNMEPSDLKISLSKE
SSNGV NANGK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

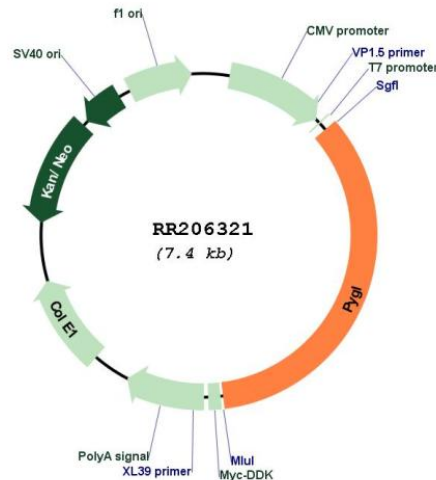
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_022268

ORF Size: 2550 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_022268.1](#), [NP_071604.1](#)

RefSeq Size: 2715 bp

RefSeq ORF: 2553 bp

Locus ID: 64035

UniProt ID: [P09811](#)

Cytogenetics: 6q24

MW: 97.5 kDa

Gene Summary: catalyzes the rate-limiting step of glycogen catabolism [RGD, Feb 2006]