

Product datasheet for MR221480

Pigg (NM_001081234) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigg (NM_001081234) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigg
Synonyms:	Gpi7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221480 representing NM_001081234, codon optimized . Due to the complexity of NM_001081234, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGACTGGGAGTGGGGCTTTTGCTGCGAGCTGCGTCGCGATCGAGGTTATCGGTGTTGCTATCTTCA
TTCGGGGCTTCTCCCGCTCCTGTTAGATCTAGTGCTCGACCTGAGCACGACGCGAAACACCTGCGCC
AGAGCCCGTTGCTGGTGAAGGTCCAATTGGACTAAACTGCCTCCCCACTGTTTTCCAAGTTGTGATC
GTTTTGATTGACGCCCTGCGCGACGACTTCGTGTTGGGTCCAAGGGCGTGAAATATATGCCCTACACAA
CGTACTTGGTGGAGAAAGGAGCATCACATAGCTTCGTGGCAGAGGCTAAGCCTCTACGGTGACAATGCC
TAGGATTAAGCCCTGATGACTGGCTCCCTGCCTGGCTTTGTTGACGTGATTAGGAACCTCAATTCTCCA
GTGCTGTTGGAAGACAACGTGCTGAGGCAAGCTAAGGCCGCCGGTAAGAGAATCATATTTCTATGGCGATG
AGACATGGGTAAACTGTTCCCAAACATTTGTTGAATACGATGGCACAACCTTTTTCTGTCAGATG
CTATATCGAAGTAGACAAGAAGCTGACTCGGCACCTGGACAAAGTGCTCAAAAGGGGAGATTGGGACGTG
CTCATCTTGCATTACCTGGCCCTTGACCACATTGGGCACATCTCAGGGCCCAACAGCCCCCTCATCGGGC
ATAAGCTTTCTGAGATGGACTCCGTAATCATGAAGATTCATACCAGCCTGTTGTCCAAGGATAGAGAGAC
ACTGCTCCCTCTCCTGGTCTCTGCGGAGATCACGGCATGTCCGAAACCGGTAGCCACGGCGCTTCC
TCCACAGAGGAAGTTTCCACTCCCTGCTGCTCATCAGCTCCGCCTTTGAGCGAAAGCCAGGGGACATTA
GACATCTAAACATGTGCAACAGACAGACCTCGCCGCGACCTTGCCATCGGTCTGGGCCTCCCATACC
CAAGGACTCTGTAGGGTCACTGCTGTTTCTGTGATCGAGGGCAAGCCCATGAGGGAGCAGCTTCGATTC
CTCCACCTCAACACGCTGCAATTGTCCAACCTGCTGCAGGAAAAGCTGCCTTCATACGAGAAAGACCCAG



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GTTTTGAGCAGTTTAAGATGGCTGAGAACTGCATGGAACTGGGTCAAGCTGCATCTGGAGGAGAACCA
 CAGTGACATCCTGCTGGGACTCGGAACCAAAGTGTTCGGCCTACTCTCGGAGCCCTCAAACTCTTTCC
 CTGTCAATTGAGCACGCAGGTGGCCCAATACGATATGACTCCATGGCGGTTCTGGCACTTTTCTTGTGA
 GCACACCACACGTCTGTGTAGAAAGGCTGAGCTCGACGTACCGTGTCTCCTCGTATTCCTTGTCT
 GTTCTACCTGGTATTCTCGTTTTGTCTGCAATCCATGTACTGGTCTGCACAAGCTCTGAGAGCAGTTGT
 TACCTGTGTAGCCTGTCTGGCTGGCCGTGGGAGCTGTATGTTGCTGGTAAAGTCACTGTCTGTGCAA
 TTTTGTCCCGCTGATCAGAATGGTATTGACAGCACACTGCTCAAGAAGAACGCCGACAGCCAGCTC
 TGTTGGTCCGAGGTGAATCTTTTGTCTGCTGGGCACTGTGGGACACGTACTGAGCCTGGGGCATCC
 TCCTTTGTGCAAGAAGAACATCAAACGTGGTATTTCTGATCAATACTGTGCCTGGCGTTGAGTCAGG
 AGACATGCCGGAGTTACTTTCTCGGCGATGAGTGCAGGCCACAAAGACACAGCCAGTGGAGCAGCAGTG
 TGTCAACCTTCTGGCTTGCCCTGCAAGACTCTACTTCTATAATACCCCTGAGAGCGGAACAGCTGGA
 AAGCGGTTAGCCTCTGGAGGCCAGGGATCATGCAAGTGGTGGACCGTCTGGCCAGCCCGTGGCTGG
 TCCTGTGTGTTGCCCTGTGAGAAGCCTGAACCAGACGGAGTGAAGGCGCCATCGACCAGACTT
 CTCTATTGGTTGACCAGCTCCGACCACAAGGTGCAACTTAGCGGGCTTCCGCTCTGTCCCTGGTGGT
 ATTTTCATGCTGGTGCAGAGGCGTGTCTCTGGTGAAGTAAAGTGGCACTTGGCCTGGGACTTCTGGGG
 TGTTCTGTATAGAGCCCAATCGGTATAGTTCATTCCTTGGCAGTCTGACAACAAGGCATCTCCAA
 GGAATCATTGAGGCCAGGTTCTGATATGTCTTTGTGTTGGGATTCTCTTCACTGGTACTAAGGACCTG
 CTGAAGGCTCAGGTTATCGCCACCGACTTCAAGACCAAAACCGTTGGACTCTGGGAGATGCATTCTGGAT
 TGGTCTCCTCGCGGCCCTTCTGTTGCGGCCTCACAATCTGCCAGTCTTGTCTTTAGCCTGCTGATTCA
 GACCGTTATGACCAAAATTCATCTGGAAGCCTCTGCGGCACGACGAGCCGAAATACCGTGTACTAT
 TGGTTCGGGCAGGCTTCTTTACTTCCAGGAAATCCAACAACATAGCGACTATCGACATAAGCGCTG
 GTTTCGTGGGGCTCGATACATACATGGAAGTCCCTGCTACCTTTTGGCGGTGTTCCGTTACTTACGTTG
 CCCTGTGCTGTGGCAAGCCACCTGGTCTATTTCTTTCTCCGAGGGGAACAACACTCAGTCTGTCTCGG
 AGTTGCTTCTGTTACGCCCTGATCTGTAGCGTGCCTGTTGCGACATACATCGTCTGCTACTAGCCTCC
 GCTATCATCTGTTATTTGGTCTGTTTTCTCTCCAAACTGCTGTACGAGGGTATGCATCTGCTGATAAC
 TGCCGCCATCTGTGAGTTTTACCGCCACAAACCAGACCCGACCCGAAGAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221480 representing NM_001081234
 Red=Cloning site Green=Tags(s)

MRLGSGAFAASCVAVIEVIGVAIFIRGFFPAPVRSSARPEHDAETPAPEPVAGVRSNWTCLPPPLFSKVV
 VLIDALRDDFVFGSKGVKYPYTYLVEKGASHSFVAEAKPPTVMPRIKALMTGSLPGFVDVIRNLNSP
 VLLEDNVLQAKAAGKRIIFYGDETWKLFPKHFVEYDGTTSFFVSDYIEVDKNVTRHLDKVLKRGDWDV
 LILHYLGLDHIHISGPNLSLIGHKLEMSVLMKIHTSLLSKDRETLPSLLVLCGDHGMSETGSHGAS
 STEEVSTPLLLISSAFERKPGDIRHPKHVQQTDLAATLAIGLGLPIPKDSVGSLLFPVIEGKPMREQLRF
 LHLNLTQLSKLLQENVPSYEKDPGFEQFKMAEKLHGNWVKLHLEENHSDILLGLGTKVLRHYLGLKTL
 LSLSTQVAQYDMYSMAVLAFLSTPHVLCRKAELDVPLLSPVFSLLFYLVFLVLSAIHVLVCTSSSESS
 YLCSLSWLA VGAVMLLVSALFCAILSALIRMVIDSTLLKNAADASSGWSEVNLLLLGTGVHVL
 SLGAS SFVEEHQTWYFLINTLCLALSQETCRSYFLGDECEPQRHSHVEQQCVNLLACPLQDSTS
 SYNTPESGTAG KRVSLLEAQGSCKWWTVLASPWL VLLCCRLRLSLNQTGVQGAHRPDFSHWL
 TSSDHKVQLSGLAALSLV IFMLVQRCSLVSKVALALGLLVFCYRAAIGIVQFPWQSDNKGISKGI
 IEARFVYVFLGILFTGKDL LKAQVIATDFKTKTVGLWEMHSGLVLLAALLRPHNLPVLA
 FSLLIQTVMTKFIWKPLRHDAEITVMHY WFGQAFFYFQGNNSNIATIDISAGFVGLD
 TYMEVPATFLTVFGTYVGPVLWASHLYVFLSSEGNNSALSR SCFCYALICSVPVATYIVL
 VTSRLRYHLFIWSVFSFKLLYEGMHLLITAAICAVFTATNQTRHRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001081234

ORF Size: 2925 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_001081234.1](#), [NM_001081234.2](#), [NP_001074703.1](#)

RefSeq Size: 4233 bp

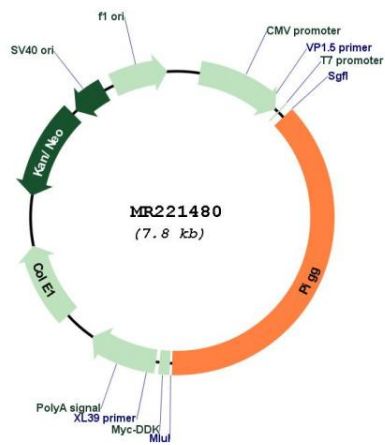
RefSeq ORF: 2928 bp

Locus ID: 433931

Cytogenetics: 5 F

MW: 107.7 kDa

Product images:



Circular map for MR221480