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Product datasheet for MG221480

Pigg (NM_001081234) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigg (NM_001081234) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigg
Synonyms:	Gpi7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221480 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGACTTGGGAGTGGGGCTTTTGCTGCGAGCTGCGTCGCGATCGAGGTTATCGGTGTTGCTATCTTCA
TTCGGGGCTTCTTCCCCGCTCCTGTTAGATCTAGTGCTCGACCTGAGCACGACGCGGAAACACCTGCGCC
AGAGCCCGTTGCTGGTGTAAGGTCCAATTGGACTAAACTGCCTCCCCCACTGTTTTCCAAGGTTGTGATC
GTTTTGATTGACGCCCTGCGCGACGACTTCGTGTTCGGGTCCAAGGGCGTGAAATATATGCCCTACACAA
CGTACTTGGTGGAGAAAGGAGCATCACATAGCTTCGTGGCAGAGGCTAAGCCTCCTACGGTGACAATGCC
TAGGATTAAAGCCCTGATGACTGGCTCCCTGCCTGGCTTTGTTGACGTGATTAGGAACCTCAATTCTCCA
GTGCTGTTGGAAGACAACGTGCTGAGGCAAGCTAAGGCCGCCGGTAAGAGAATCATATTCTATGGCGATG
AGACATGGGTTAAACTGTTCCCCAAACATTTCGTTGAATACGATGGCACAACCTCTTTTTTCGTGTCAGA
CTATATCGAAGTAGACAAGAACGTGACTCGGCACCTGGACAAAGTGCTCAAAAGGGGAGATTGGGACGTG
CTCATCTTGCATTACCTGGGCCTTGACCACATTGGGCACATCTCAGGGCCCAACAGCCCCCTCATCGGGC
ATAAGCTTTCTGAGATGGACTCCGTACTCATGAAGATTCATACCAGCCTGTTGTCCAAGGATAGAGAGAC
ACTGCTCCCCTCTCTCCTGGTTCTCTGCGGAGATCACGGCATGTCCGAAACCGGTAGCCACGGCGCTTCC
TCCACAGAGGAAGTTTCCACTCCCCTGCTGCTCATCAGCTCCGCCTTTGAGCGAAAGCCAGGGGACATTA
GACATCCTAAACATGTGCAACAGACAGACCTCGCCGCGACCTTGGCCATCGGTCTGGGCCTCCCCATACC
CAAGGACTCTGTAGGGTCACTGCTGTTTCCTGTGATCGAGGGCAAGCCCATGAGGGAGCAGCTTCGATTC
CTCCACCTCAACACGCTGCAATTGTCCAAACTGCTGCAGGAAAACGTGCCTTCATACGAGAAAGACCCAG

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GTTTTGAGCAGTTTAAGATGGCTGAGAAACTGCATGGGAACTGGGTCAAGCTGCATCTGGAGGAGAACCA
CAGTGACATCCTGCTGGGACTCGGAACCAAAGTGTTGCGGCACTATCTCGGAGCCCTCAAAACTCTTTCC
CTGTCATTGAGCACGCAGGTGGCCCAATACGATATGTACTCCATGGCGGTTCTGGCACTTTTCTTGTTGA
GCACACCACACGTCCTGTGTAGAAAGGCTGAGCTCGACGTACCGCTGCTGTCTCCCGTATTCTCCTTGCT
GTTCTACCTGGTATTCCTCGTTTTGTCTGCAATCCATGTACTGGTCTGCACAAGCTCTGAGAGCAGTTGT
TACCTGTGTAGCCTGTCTTGGCTGGCCGTGGGAGCTGTCATGTTGCTGGTAAGTGCACTGTTCTGTGCAA
TTTTGTCCGCCCTGATCAGAATGGTGATTGACAGCACACTGCTCAAGAAGAACGCCGCAGACGCCAGCTC
TGGTTGGTCCGAGGTGAATCTTTTGCTGCTGCTGGGCACTGTGGGACACGTACTGAGCCTGGGGGCATCC
TCCTTTGTCGAAGAAGAACATCAAACGTGGTATTTCCTGATCAATACACTGTGCCTGGCGTTGAGTCAGG
AGACATGCCGGAGTTACTTTCTCGGCGATGAGTGCGAGCCACAAAGACACAGCCACGTGGAGCAGCAGTG
TGTCAACCTTCTGGCTTGCCCCCTGCAAGACTCTACTTCTTATAATACCCCTGAGAGCGGAACAGCTGGA
AAGCGGGTTAGCCTCCTGGAGGCCCAGGGATCATGCAAGTGGTGGACCGTCCTGGCCAGCCCGTGGCTGG
TCCTGCTGTGTTGCCGCCTGCTGAGAAGCCTGAACCAGACGGGAGTGCAAGGCGCCCATCGACCAGACTT
CTCTCATTGGTTGACCAGCTCCGACCACAAGGTGCAACTTAGCGGGCTTGCCGCTCTGTCCCTGGTGGTG
ATTTTCATGCTGGTGCAGAGGCGCTGTTCTCTGGTGAGTAAAGTGGCACTTGCCCTGGGACTTCTGGGGG
TGTTCTGCTATAGAGCCGCAATCGGTATAGTTCAATTCCCTTGGCAGTCTGACAACAAGGGCATCTCCAA
GGGAATCATTGAGGCCAGGTTCGTATATGTCTTTGTGTTGGGGATTCTCTTCACTGGTACTAAGGACCTG
CTGAAGGCTCAGGTTATCGCCACCGACTTCAAGACCAAAACCGTTGGACTCTGGGAGATGCATTCTGGAT
TGGTCCTCCTCGCGGCCCTTCTGTTGCGGCCTCACAATCTGCCAGTTCTTGCTTTTAGCCTGCTGATTCA
GACCGTTATGACCAAATTCATCTGGAAGCCTCTGCGGCACGACGCAGCCGAAATTACCGTGATGCACTAT
TGGTTCGGGCAGGCCTTCTTTTACTTCCAGGGAAATTCCAACAACATAGCGACTATCGACATAAGCGCTG
GTTTCGTGGGGCTCGATACATACATGGAAGTCCCTGCTACCTTTTTGACGGTGTTCGGTACTTACGTTGG
CCCTGTGCTGTGGGCAAGCCACCTGGTCTATTTCCTTTCTTCCGAGGGGAACAACTCAGCTCTGTCTCGG
AGTTGCTTCTGTTACGCCCTGATCTGTAGCGTGCCCGTTGCGACATACATCGTCCTGGTCACTAGCCTCC
GCTATCATCTGTTTATTTGGTCTGTTTTCTCTCCCAAACTGCTGTACGAGGGTATGCATCTGCTGATAAC
TGCCGCCATCTGTGCAGTTTTCACCGCCACAAACCAGACCCGACACCGAAGAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

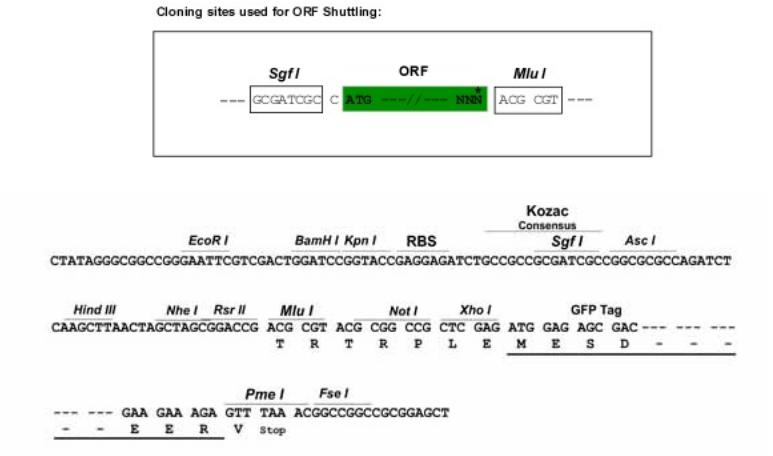
>MG221480 representing NM_001081234
Red=Cloning site Green=Tags(s)

MRLGSGAFAASCVAIEVIGVAIFIRGFFPAPVRSSARPEHDAETPAPEPVAGVRSNWTKLPPPLFSKVVI
VLIDALRDDFVFGSKGVKYMPYTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSP
VLLEDNVLRQAKAAGKRIIFYGDETWVKLFPKHFVEYDGTTSFFVSDYIEVDKNVTRHLDKVLKRGDWDV
LILHYLGLDHIGHISGPNSPLIGHKLSEMDSVLMKIHTSLLSKDRETLLPSLLVLCGDHGMSETGSHGAS
STEEVSTPLLLISSAFERKPGDIRHPKHVQQTDLAATLAIGLGLPIPKDSVGSLLFPVIEGKPMREQLRF
LHLNTLQLSKLLQENVPSYEKDPGFEQFKMAEKLHGNWVKLHLEENHSDILLGLGTKVLRHYLGALKTLS
LSLSTQVAQYDMYSMAVLALFLLSTPHVLCRKAELDVPLLSPVFSLLFYLVFLVLSAIHVLVCTSSESSC
YLCSLSWLAVGAVMLLVSALFCAILSALIRMVIDSTLLKKNAADASSGWSEVNLLLLLGTVGHVLSLGAS
SFVEEEHQTWYFLINTLCLALSQETCRSYFLGDECEPQRHSHVEQQCVNLLACPLQDSTSYNTPESGTAG
KRVSLLEAQGSCKWWTVLASPWLVLLCCRLLRSLNQTGVQGAHRPDFSHWLTSSDHKVQLSGLAALSLVV
IFMLVQRRCSLVSKVALALGLLGVFCYRAAIGIVQFPWQSDNKGISKGIIEARFVYVFVLGILFLTGTKDL
LKAQVIATDFKTKTVGLWEMHSGLVLLAALLLRPHNLPVLAFSLLIQTVMTKFIWKPLRHDAAEITVMHY
WFGQAFFYFQGNSNNIATIDISAGFVGLDTYMEVPATFLTVFGTYVGPVLWASHLVYFLSSEGNNSALSR
SCFCYALICSVPVATYIVLVTSLRYHLFIWSVFSPKLLYEGMHLLITAAICAVFTATNQTRHRRA

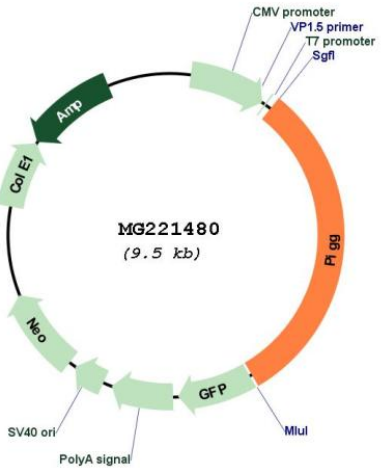
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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, NP_001074703.1
RefSeq Size:	4233 bp
RefSeq ORF:	2928 bp
Locus ID:	433931
Cytogenetics:	5 F