

Product datasheet for MR218595

Pigx (NM_001111025) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pigx (NM_001111025) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pigx
Synonyms: 2010319C14Rik; PIG-X
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218595 representing NM_001111025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

CTGGCTGCCGGCGCTGTGGCCTGGCTGCTCCTTTGGGCAGCCTGGCTGGTCGGCAGGCTCGCCGCGGACT
 TCAGCGACGCCCTTTCAGCGCTGGTGAAGGGCCACTTGTTCTGAAATTATTTAAGGCAAGAATTTT
 GAAAGATGGTTTCCACAGAGACCTTTAATAAAAAGTGAAATTTGGAGAGAGCATTGAGGACCTACAGACC
 TGCCGGCTCCTAATTAAGCATTACATCCACCAGGACTCTTTGTGGATCCCTATGAGTTGGCTTCACTAC
 GAGAAAGGAACCTAACAGAGGCAGTGATGCTATCAGAAAGTTTTAATATAGAAGCCCCAACTACTTGTC
 CAATGAATCTGCAGTCTCATTTATGCCCGCAGGATGCACAGTGCATCGACTGCTTCCAGGCCTTTTTA
 CCTGTGCACTATCGCTATCACCGCCACATAAGAAAGATGGAGACACCCTCATTGTGGTCAACAACCCCG
 ACTTACTGATGTACTGTGACCAAGAGTTTCCAATTTTGAATGCTGGGCTCAGTCAGAAGTAGCAGCTCC
 TTGTGCTTTGAAGAGTGAGGAGATCTGCCAGTGGAAAAGCATGCAGTACAAATCAATACTTAAGAATTTG
 ACAGTGCAGGTTCCAGTGGGACTGACTATACATACCTCTTTAGTGTGTTCTGTGACGCTGCTCATTACGA
 TTCTGTGTTCTACTTTGATCCTTTTAGCTGTTTTCAAATATGGCCACTTTTCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218595 representing NM_001111025
 Red=Cloning site Green=Tags(s)

LAAGAVAWLLLWAAWLVGRLAADFSDAPFSAGVTRATCSEIILRQEFKLDGFHRDLLIKVKFGESIEDLQT
 CRLLIKHYIPPGLFVDPYELASLRERNL TEAVMLSESFNIEAPNYLSNESAVLIYARQDAQCIDCFQAF
 PVHYRYHRPHKKDGTLLIVVNNPDLLMYCDQEFPIKCKWAQSEVAAPCALKSEEICQWKSQYKSIKLN
 TVQVPVGLTIHTSLVCSVTLITILCSTLILLAVFKYGHFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001111025

ORF Size: 756 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_001111025.1](#), [NP_001104495.1](#)

RefSeq Size: 1013 bp

RefSeq ORF: 759 bp

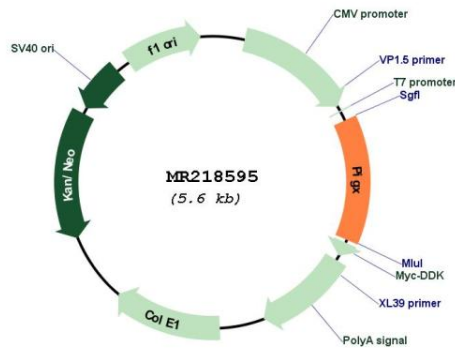
Locus ID: 72084

Cytogenetics: 16 B2

MW: 28.9 kDa

Gene Summary: This gene encodes a type I transmembrane protein in the endoplasmic reticulum (ER). The protein is an essential component of glycosylphosphatidylinositol-mannosyltransferase I, which transfers the first of the four mannoses in the GPI-anchor precursors during GPI-anchor biosynthesis. Studies in rat indicate that the protein is translated from a non-AUG translation initiation site. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR218595