

Product datasheet for **RG228208**

PIGX (NM_001166304) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGX (NM_001166304) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGX
Synonyms:	PIG-X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228208 representing NM_001166304 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

CTGGCGGCTCGGGTGGCGGCGGTTCTGGGCGGCCGCTGGCTGCTCCTCGGGCGGCGACCGGGCTCACGC
 GCGGGCCCGCGCGGCCCTTACCAGCGCGCGCTCTGACGCCGGCATAAGGGCCATGTGTTCTGAAATTAT
 TTTGAGGCAAGAAGTTTGAAGATGGTTCCACAGAGACCTTTAATCAAAGTGAAGTTGGGAAAGC
 ATTGAGGACTTGACACCTGCCGTCTCTTAATTAACAGGACATTCCTGCAGGACTTTATGTGGATCCGT
 ATGAGTTGGCTTCATTACGAGAGAGAAACATAACAGAGGCAGTGATGGTTTCAGAAAATTTGATATAGA
 GGCCCTAACTATTTGTCCAAGGAGTCTGAAGTTCTCATTATGCCAGACGAGATTACAGTGCATTGAC
 TGTTTTCAAGCCTTTTGCCTGTGCACTGCCGCTATCATCGGCCGACAGTGAAGATGGAGAAGCCTCGA
 TTGTGGTCAATAACCCAGATTTGTTGATGTTTTGTGACCAAGCTGGCTCCAGAAGAATGATCAGATTCGG
 GTTTGATTCCTTTGACAAACTATAGAGTTCCCGATTTTGAAATGCTGGGCTCACTCAGAAGTGGCAGCC
 CCTTGCTTTGGAGAATGAGGATATCTGCCAATGGAACAAGATGAAGTATAAATCAGTATATAAGAATG
 TGATTCTACAAGTTCAGTGGGACTGACTGTACATACCTCTCTAGTATGTTCTGTGACTCTGCTCATTAC
 AATCCTGTGCTCTACATTGATCCTTGAGCAGTTTTCAAATATGGCCATTTTCCCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG228208 representing NM_001166304
 Red=Cloning site Green=Tags(s)

LAARVAAVRAAWLLGAATGLTRGPAAFTAARSDAGIRAMCSEIILRQEVLDKGFHRDLLIKVKFGES
 IEDLHTCRLLIKQDIPAGLYVDPYELASLRERNITEAVMVSENFIEAPNYLSKESEVLIYARRDSQCID
 CFQAFLPVHCYHRPHSEDEASIVVNNPDLLMFCDQAGSRMRIRFRFDSFDKTIEFPILKCWAHSEVAA
 PCALENEDICQWNKMKYSVYKNVILQVPVGLTVHTSLVCSVTLLITILCSTLILVAVFKYGHFSL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166304

ORF Size: 828 bp

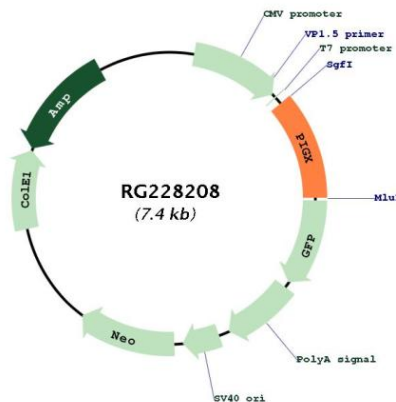
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001166304.2</u>
RefSeq Size:	3106 bp
RefSeq ORF:	831 bp
Locus ID:	54965
UniProt ID:	<u>Q8TBF5</u>
Cytogenetics:	3q29
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG228208