

## Product datasheet for **RG205491**

### PIGX (NM\_017861) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGX (NM_017861) 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:	>RG205491 representing NM_017861 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGTTCTGAAATTATTTGAGGCAAGAAGTTTTGAAAGATGGTTCCACAGAGACCTTTAATCAAAG  
TGAAGTTTGGGAAAGCATTGAGGACTTGACACGTGCCGTCTTAATTAACAGGACATTCCTGCAGG  
ACTTTATGTGGATCCGTATGAGTTGGCTTCATTACGAGAGAGAAACATAACAGAGGCAGTGATGGTTTCA  
GAAAATTTGATATAGAGGCCCTAACTATTTGCCAAGGAGTCTGAAGTTCTCATTATGCCAGACGAG  
ATTCACAGTGCATTGACTGTTTTCAAGCCTTTTTGCCTGTGCACTGCCGCTATCATCGGCCGCACAGTGA  
AGATGGAGAAGCCTCGATTGTGGTCAATAACCCAGATTTGTTGATGTTTTGTGACCAAGAGTTCCCGATT  
TTGAAATGCTGGGCTCACTCAGAAGTGGCAGCCCTTGTGCTTTGGATAATGAGGATATATGCCAATGGA  
ACAAGATGAAGTATAATCAGTATATAAGAATGTGATTCTACAAGTTCCAGTGGGACTGACTGTACATAC  
CTCTCTAGTATGTTCTGTGACTCTGCTCATTACAATCCTGTGCTCTACATTGATCCTTGTAGCAGTTTTTC  
AAATATGGCCATTTTCCCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205491 representing NM\_017861  
Red=Cloning site Green=Tags(s)

MCSEIILRQEVLKDGFRDLLIKVKFGESIEDLHTCRLLIKQDIPAGLYVDPYELASLRERNITEAVMVS  
 ENFDIEAPNYLSKESEVLIYARRDSQCIDCFQAFLPVHCRYHRPHSEGEASIVVNNPDLLMFCDQEFPI  
 LKCAHSEVAAPCALDNEDICQWNKMKYKSVYKNVILQVPVGLTVHTSLVCSVTLLITILCSTLILVAVF  
 KYGHFSL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017861

**ORF Size:** 651 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\\_017861.1](#), [NP\\_060331.1](#)

**RefSeq Size:** 1876 bp

**RefSeq ORF:** 777 bp

**Locus ID:** 54965

**UniProt ID:** [Q8TBF5](#)

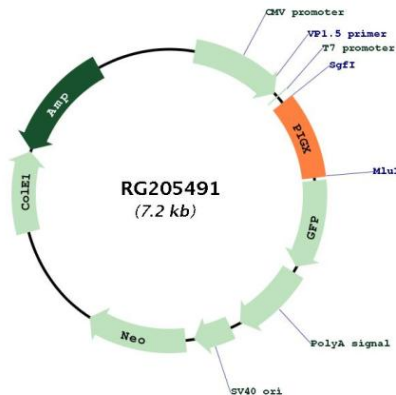
**Cytogenetics:** 3q29

**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 RG205491