

Product datasheet for **RG237301**

PIGG (NM_001289057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGG (NM_001289057) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGG
Synonyms:	GPI7; LAS21; MRT53; PRO4405; RLGS1930
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237301 representing NM_001289057. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCCTACACAACCTACCTTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCT
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TCATTTTTCGTGTGAGATTACACAGAGGTGATAATAATGTCACGAGGCATTTGGATAAAGTATTAATA
AGAGGAGATTGGGACATATTAATCCTCCACTACCTGGGGCTGGACCACATTGGCCACATTTAGGGCCC
AACAGCCCCCTGATTGGGCAGAAGCTGAGCGAGATGGACAGCGTCTGATGAAGATCCACACCTCACTG
CAGTCGAAGGAGAGAGAGACGCCTTACCCAATTTGCTGGTTCTTTGTGGTGACCATGGCATGTCTGAA
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ATAGCACTTGGCTTACCGATTCCAAAAGACAGTGTAGGGAGCCTCCTATTCCAGTTGTGGAAGGAAGA
CCAATGAGAGAGCAGTTGAGATTTTACATTTGAATACAGTGCAGCTTAGTAACTGTTGCAAGAGAAT
GTGCCGTCATATGAAAAGGTTCTACCCTGCTCCTGCTCAGCGTCCCACAGGCACTGCGCAGAAAAGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237301
 Blue=ORF Red=Cloning site Green=Tag(s)

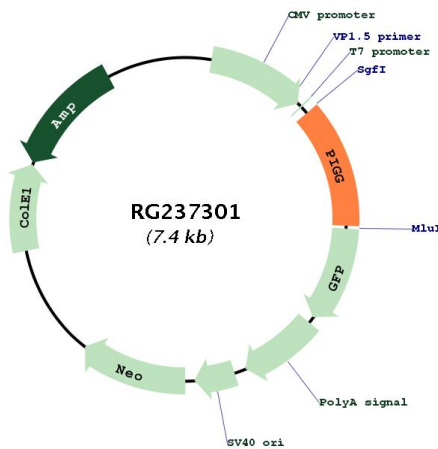
MPYTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSPALLEDVIRQAKAAGKRI
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 ERKPGDIRHPKHVQQTQDVAATLAIALGLPIKDSVGSLLFPVVEGRPMREQLRFLHLNTVQLSKLLQEN
 VPSYEKGSHPAPAQRPTGTAQKG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289057

ORF Size:	897 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).
RefSeq:	NM_001289057.1 , NP_001275986.1
RefSeq Size:	2685 bp
RefSeq ORF:	900 bp
Locus ID:	54872
UniProt ID:	Q5H8A4
Cytogenetics:	4p16.3
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
MW:	33.4 kDa
Gene Summary:	This gene encodes an enzyme involved in glycosylphosphatidylinositol-anchor biosynthesis. The encoded protein, which is localized to the endoplasmic reticulum, is involved in transferring ethanolamine phosphate to mannose 2 of glycosylphosphatidylinositol species H7 to form species H8. Allelic variants of this gene have been associated with intellectual disability, hypotonia, and early-onset seizures. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]