

## Product datasheet for **RC238480**

### PIGG (NM\_001289053) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGG (NM_001289053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGG
Synonyms:	GPI7; LAS21; MRT53; PRO4405; RLGS1930
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238480 representing NM\_001289053  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCTACACAACCTTACCTTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCTA  
 CAGTTACTATGCCTCGAATCAAGGCATTGATGACGGGGAGCCTTCTGGCTTTGTGACGTCATCAGGAA  
 CCTCAATTCTCCTGCACTGCTGGAAGACAGTGTGATAAGACAAGCAAAGCAGCTGGAAAAAGAATAGTC  
 TTTTATGGAGATGAAACCTGGGTAAATATTCCCAAAGCATTGTGGAAATATGATGGAACAACCTCAT  
 TTTTCGTGTCAGATTACACAGAGGTGGATAATAATGTCACGAGGCATTGGATAAAGTATAAAAAGAGG  
 AGATTGGGACATTAATCCTCCACTACCTGGGGCTGGACCACATTGGCCACATTCAGGGCCCAACAGC  
 CCCCTGATTGGGCAGAAGCTGAGCGAGATGGACAGCGTGTGATGAAGATCCACACCTCACTGCAGTCGA  
 AGGAGAGAGAGACGCCTTACCCAATTTGCTGGTCTTTGTGGTGACCATGGCATGTCTGAAACAGGAAG  
 TCACGGGGCCTCCTCCACCGAGGAGTGAATACACCTCTGATTTAATCAGTTCTGCGTTTGAAAGGAAA  
 CCCGGTGATATCCGACATCCAAAGCACGTCCAACAGACGGATGTGGCTGCGACACTGGCGATAGCACTTG  
 GCTTACCGATTCCAAAAGACAGTGTAGGGAGCCTCCTATTTCCAGTTGTGGAAAGGAAGCAATGAGAGA  
 GCAGTTGAGATTTTACATTTGAATACAGTGCAGCTTAGTAAACTGTTGCAAGAGAATGTCCGTCATAT  
 GAAAAAGATCCTGGGTTTGAGCAGTTTAAATGTGAGAAAGATTGCATGGAACTGGATCAGACTGTACT  
 TGGAGGAAAAGCATTGAGAAGTCTATCAACCTGGGCTCCAAGTTCTCAGGCAGTACCTGGATGCTCT  
 GAAGACGCTGAGCTTGTCCCTGAGTGCACAAGTGGCCAGTACGACATCTATTGATGATGGTGGGGACT  
 GTCGTGGTTTTGGAGTTCTCACCTGCTCCTGCTCAGCGTCCCACAGGCACTGCGCAGAAAGGCTGAGC  
 TGAAGTCCCACCTGTCATCTCCTGGGTTTTCTCTGCTCTTTTATTTGGTGATCCTGGTTCTTCGGCCGT  
 TACGTCATTGTGTGCACCTCAGCTGAAAGTTCGTGCTACTTCTGTGGCCTCTCGTGGCTGGCGGAGGT  
 GGGGTGATGGTGTGGCCTCGGGCTGCTGTGTGATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTG  
 GAAACACCCCAAGGAAGGTACGTACGGCTGGTTCCTGGGAGTGTGACGTAGTCTCTGCTCAGGTTGTT  
 CTTGTTATTTAGGCTGCCTTTCTGTTTACCAGACTCTGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238480 representing NM\_001289053  
 Red=Cloning site Green=Tags(s)

MPYTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSPALLEDSVIRQAKAAGKRIV  
 FYGDETWKLFPKHFVEYDGTTSFFVSDYTEVDNNTVTRHLDKVLKRGDWDILILHYLGLDHHIGHISGPN  
 PLIGQKLEMDSVLMKIHTSLQSKERETPLPNLLVLCGDHGMSETGSHGASSTEEVNTPLILISSAFERK  
 PGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRFLHLNVTQVLSKLLQENVPSY  
 EKDPGFEEQFKMSERLHGNWIRLYLEEKHSEVLFNLGSKVLRQYLDALKTSLSLSAQVAQYDIYSMMVGT  
 VVVLEVLTLTLLSVPQALRRKAELEVPLSSPGFSLLFYLVILVLSAVHVIVCTSAEISSCYFCGLSWLAAG  
 GVMVLASALLCVIVSVLTVNLVGGNTPRKVRTAGSWECDVVLLLRLLFLLFQAARLPDSG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

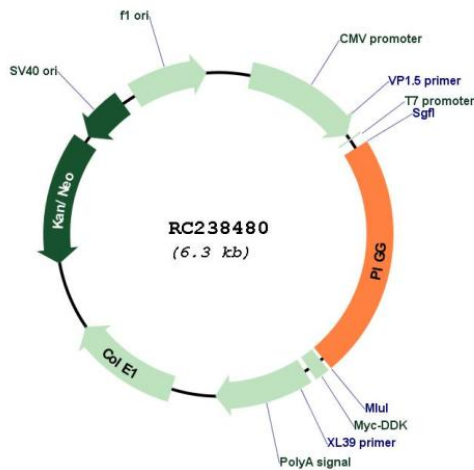
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001289053

ORF Size:

1440 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001289053.1, NP_001275982.1</u>
<b>RefSeq Size:</b>	3225 bp
<b>RefSeq ORF:</b>	1443 bp
<b>Locus ID:</b>	54872
<b>Cytogenetics:</b>	4p16.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
<b>MW:</b>	53.5 kDa
<b>Gene Summary:</b>	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]