

## Product datasheet for **RC239676**

### PIGG (NM\_001289052) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGG (NM_001289052) 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



[View online »](#)

**ORF Nucleotide Sequence:**

>RC239676 representing NM\_001289052  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCTGGGCTCCGGACTTTTCGCTACCTGTTGCGTAGCGATCGAGGTGCTAGGGATCGCGGTCTTCC  
 TTCGGGGATTCTCCCGCTCCCGTTCGTTCTCTGCCAGAGCGGAACACGGAGCGGAGCCCCAGCGCC  
 CGAACCTCGGCTGGAGCCAGTTCTAACTGGACCACGCTGCCACCACCTCTCTTCAAGTTGTTATT  
 GTTCTGATAGATGCCTTGAGAGATGATTTTGTGTTGGGTCAAAGGGTGTGAAATTTATGCCCTACACAA  
 CTTACCTTGTTGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCTACAGTTACTATGCC  
 TCGAATCAAGGAGAGAGAGACGCCTTTACCCAATTTGCTGGTCTTTGTGGTGACCATGGCATGTCTGAA  
 ACAGGAAGTCACGGGGCCTCCTCCACCGAGGAGGTGAATACACCTCTGATTTTAAATCAGTTCTGCGTTT  
 AAAGGAAACCCGGTGATATCCGACATCCAAAGCACGTCCAACAGACGGATGTGGTGCACACTGGCGAT  
 AGCACTTGGCTTACCGATTCCAAAAGACAGTGTAGGGAGCCTCCTATTCCAGTTGTGGAAGGAAGACCA  
 ATGAGAGAGCAGTTGAGATTTTTACATTTGAATACAGTGCAGCTTAGTAACTGTTGCAAGAGAATGTGC  
 CGTCATATGAAAAAGATCCTGGGTTTGAGCAGTTAAAATGTGAGAAAGATTGCATGGGAACTGGATCAG  
 ACTGACTTGGAGAAAAGCATTGAGAAGTCTATTCAACCTGGGCTCCAAGTTCTCAGGCAGTACCTG  
 GATGCTCTGAAGACGCTGAGCTTGTCCCTGAGTGCACAAGTGGCCAGTACGACATCTATTGATGATGG  
 TGGGACTGTGCTGGTTTTGGAGTTCTCACCTGCTCCTGCTCAGCGTCCCACAGGCACTGCGCAGAAA  
 GGCTGAGCTGGAAGTCCCACTGTCTCCTGGTTTTCTCTGCTCTTTTATTGGTGATCTGGTTCTT  
 TCGGCCGTTACGTCATTGTGTGCACCTCAGTGAAGTTCGTGCTACTCTGTGGCCTCTCGTGGCTGG  
 CGGCAGTTGGGTGATGGTGTGCTGGCCTGGCGCTGCTGTGTGATTGTGTCTGTTCTACCAACGCTG  
 CGTGGGTGGAACACCCCAAGGAAGAACCCTATGCATCCAGCTCAAGGTGGTCAAGAGTAGACCTTCTT  
 ATTCTGTTGGGACGGCGGCCACGCTTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGACACCAGA  
 CCTGTTACTTCTTGTGAACACCCTGTGTCTAGCTCTGAGCCAAGAACTACAGAACTACTTTCTGGG  
 AGATGACGGTGGCCTCCGTGTGGCCTCTGTGTGGAACAAGGCATGACGGGGCCACAGCAGCTGGCAG  
 GACGGGCTGGCTGTGATGTCTGGAGCGAGACAAAGGCCACGGAAGCCCTCTACCTCCGAAGTGTCA  
 GAGGCCGAGAAAGTGGATGGTGTGCTGGCAGTCCGTGGCTAATACTGGCCTGCTGCCGGTGTGCGCTC  
 CCTAAACCAGACAGGTGTGAGTGGCTCACCGCCTGACCTCGGCCACTGGCTCACCAGCTCTGACCAC  
 AAAGCCGAGCTCTGTCTGGTGCCTCTCCCTCCTCGTAGTTTTTTGTGCTGGTGCAGAGGGGTGCT  
 CCCCTGTGTTCAAGGCTGCCCTGGCGCTGGGGCTGCTGGGCGTCTACTGCTACCGGGCGCCATCGGGAG  
 TGTCCGGTCCCCTGGCGGCCGACAGCAAGGACATTTCAAGGGTATTATTGAAGCTCGTTTTGTTTAT  
 GTCTTTGTCTTGGCATTCTGTTACGGGCACCAAGACTTACTTAAATCTCAAGTCATTGCTGCAGACT  
 TCAAATCAAGACTGTAGGTTTATGGGAGATATATAGTGGATTAGTTCTTCTGGCAGCCTTGCTCTTTAG  
 ACCACATAATCTCCGGTCTTAGCATTTAGCCTCTTGATTGACTCTAATGACTAAATTCATCTGGAAG  
 CCCCTGAGACACGATGCAGCTGAGATTACTGTGATGCATTATTGGTTTGGTCAAGCATTCTTCTATTTTC  
 AGGGCAACTCAAACAACATTGCCACCGTGGACATCTCCGACGGCTTCGTGGGCTTAGACACCTACGTGGA  
 AATCCCAGCCGTGCTCCTGACAGCGTTTTGGGACGTACGCAGGGCCTGTGCTGTGGCCAGCCACTTAGT  
 CACTTCTGAGCTCAGAAACACGCAGTGGTTGAGCACTGAGTCATGCTTGTCTTCTGCTACGCACTGATTT  
 GTTCTATTCCAGTTTTACGTACATCGTTTTGGTACATCTCTGCGTTATCATTATTTATATGGAGTGT  
 ATTTTCTCAAAACTTCTCTACGAGGGAATGCACCTGCTCATTACAGCTGCTGTCTGTGATTCTTACAG  
 GCAATGGATCAAACCAGACTCACACAGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239676 representing NM\_001289052  
Red=Cloning site Green=Tags(s)

MRLGSGTFATCCVAIEVLGIAVFLRGFFPAPVRSSARAEGHAEPPEPSAGASSNWTTLPPPLFSKVVI  
VLIDALRDDFVFGSGKGVKFMPTTYLVEKGASHSFVAEAKPPTVTMPRIKERETPLPNLLVLCGDHGMSE  
TGSHGASSTEEVNTPLILISSAFERKPGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRP  
MREQLRFLHLNTVQLSKLLQENVPSYEKDPGFEQFKMSERLHGNWIRLYLEEKHSEVLFNLGSKVLRQYL  
DALKTLSSLQAQYDIYSMMVGTVVVLEVLTLTLLSVPQALRRKAELEVPLSSPGFSLLFYLVILVL  
SAVHVIVCTSAESSCYFCGLSWLAAGGVMVLASALLCVIVSVLTNVLVGGNTPRKNMHPSSRWSELDLL  
ILLGTAGHVL SLGASSFVEEHQTWYFLVNTLCLALSQETYRNYFLGDDGEPCCGLCVEQGHGATAAWQ  
DGP GCDVLERDKGHGSPSTSEVLRGREKWMVLASPWLILACRLLRSLNQTGVQWAHRPDLGHWTSSDH  
KAELSVLAAL SLLVVFVLVQRGCS PVS KAALALGLLGVYCYRAAIGSVRFPWRPDSKDISKGIIEARFVY  
VFVLGILFTGTDLLKSQVIAADFCLKTVGLWEIYSGLVLLAALLFRPHNLPVLAFLLIQTLMTKFIWK  
PLRHDAAEITVMHYWFGQAFFYFQGN SNNIATVDISAGFVGLDTYVEIPAVLLTAFGTYAGPVLWASHLV  
HFLSSETRSGSALSHACFCYALICSIPVFTYIVLVTSLRYHLFIWSVFS PKLLYEGMHLLITAAVCVFFT  
AMDQTRLTQS

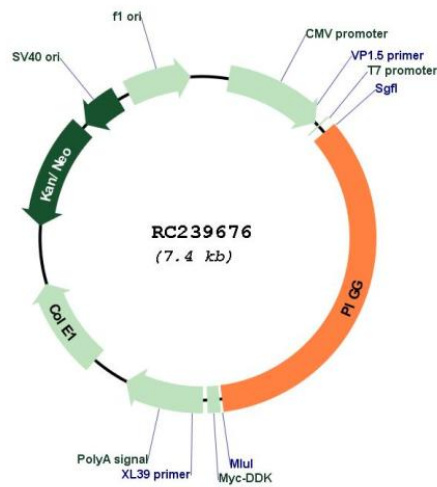
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001289052
<b>ORF Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001289052.1</a> , <a href="#">NP_001275981.1</a>
<b>RefSeq Size:</b>	3241 bp
<b>RefSeq ORF:</b>	2553 bp
<b>Locus ID:</b>	54872
<b>UniProt ID:</b>	<a href="#">Q5H8A4</a>
<b>Cytogenetics:</b>	4p16.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
<b>MW:</b>	93.7 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 ethanoloamine 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]