

## Product datasheet for **RG239747**

### **PIGG (NM\_001289051) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIGG (NM_001289051) 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)



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**ORF Nucleotide Sequence:**

>RG239747 representing NM\_001289051.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGCCCTACACAACCTTACCTTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCT
ACAGTTACTATGCCTCGAATCAAGGCATTGATGACGGGGAGCCTTCTGGCTTTGTCGACGTCATCAGG
AACCTCAATTCTCTGCACTGCTGGAAGACAGTGTGATAAGACAAGCAAAGCAGCTGGAAAAAGAATA
GTCTTTTATGGAGATGAAACCTGGGTAAATTATTCCAAAGCATTGTGGAATATGATGGAACAACC
TCATTTTTCGTGTGAGTTACACAGAGGTGGATAAATGTCACGAGGCATTTGGATAAAGTATTAATA
AGAGGAGATTGGGACATATTAATCCTCCACTACCTGGGGCTGGACCACATTGGCCACATTCAGGGCCC
AACAGCCCCCTGATTGGGCAGAAGCTGAGCGAGATGGACAGCGTCTGATGAAGATCCACACCTCACTG
CAGTGAAGGAGAGAGAGACGCCTTACCCAATTTGCTGGTCTTTGTGGTGACCATGGCATGTCTGAA
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GAAAGGAAACCCGGTATATCCGACATCCAAGCAGTCCAACAGACGGATGTGGCTGCGACACTGGCG
ATAGCACTTGGCTTACCGATTCCAAAAGACAGTGTAGGGAGCCTCCTATTCACAGTTGTGGAAGGAAGA
CCAATGAGAGAGCAGTTGAGATTTTACATTTGAATACAGTGCAGCTTAGTAAACTGTTGCAAGAGAAT
GTGCCGTGATGAAAAAGATCCTGGGTTTGGAGGTTTAAAAATGTCAGAAAAGATTGCATGGGAAGTGG
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TACCTGGATGCTCTGAAGACGCTGAGCTGTCCCTGAGTGCACAAGTGGCCAGTACGACATCTATTG
ATGATGGTGGGGACTGTCGTGGTTTTGGAGTTCTCACCTGCTCCTGCTCAGCGTCCACAGGCACTG
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CTGGTTCTTTGCGCCGTTACGTCATTGTGTGCACCTCAGTGAAGTTTCTGCTACTTCTGTGGCCCTC
TCGTGGCTGGCGCAGGTGGGGTATGGTGTGGCCTCGCGCTGCTGTGTGATTGTGTCTGTTCTG
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CTAGACCTTCTTATTCTGTTGGGACGGCGGGCCACGTCTTGGCCTGGGCGCCAGCAGCTTCGTGGAG
GAGGAGCACCAGACCTGTAAGTCTTGTGAACACCTGTGTCTAGCTCTGAGCCAAGAAACCTACAGA
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ACCTCCGAAGTGTCTCAGAGGCCGAGAAAGTGGATGGTGTGGCCAGTCCGTGGCTAATACTGGCCTGC
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CTCACCAGCTCTGACCACAAAGCCGAGCTCTGTCTGGCTGCCCTCTCCCTCCTGATTTTTGTG
CTGGTGCAGAGGGGGTGTCCCTGTGTCCAAGGCTGCCCTGGCGCTGGGGCTGTGGGGCTCTACTGC
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TCTCAAGTCAATTGCTGCAGACTTCAAACCAAGACTGTAGGTTTATGGGAGATATAGTGGATTAGTT
CTTCTGGCAGCCTTGCTCTTTAGACCACATAATCTCCGGTCTTAGCATTAGCCTCTTGATTGAGAT
CTAATGACTAAATTCATCTGGAAGCCCCGAGACACGATGCAGCTGAGATTACTGTGATGCATTATTGG
TTTGGTCAAGCATTCTTCTATTTTCAGGGCAACTCCAACAACATTGCCACCGTGGACATCTCCGACGGC
TTCGTGGGCTTAGACACCTACGTGAAAATCCCAGCCGTGCTCCTGACAGCGTTTGGGACGTACGAGGG
CCTGTGCTGTGGGCCAGCCACTTGTGCACTTCTGAGCTCAGAAAACACGAGTGGTTTCAGCACTGAGT
CATGCTTGCTTCTGCTACGCACTGATTTGTTCTATTCCAGTTTTACGTACATCGTTTTGGTGACATCT
CTGCGTTATCATTTATATGGAGTGTATTTCTCCAAAACCTCTCTACGAGGGAATGCACCTGCTC
ATTACAGTGTCTGTGTATTCTTACGGCAATGGATCAAACCAGACTCACACAGTCT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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**Protein Sequence:** >Peptide sequence encoded by RG239747  
Blue=ORF Red=Cloning site Green=Tag(s)

MPYTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSPALLED SVIRQAKAAGKRI  
VFYGDETWVKLFPKHFVEYDGTTSFFVSDYTEVDNNVTRHLDKVLKRGDWDILILHYLGLDGHIGHISGP  
NSPLIGQKLEMSDSVLMKIHTSLQSKERETLPNLLVLCGDHGMSETGSHGASSTEEVNTPLILISSAF  
ERKPGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRFLHLNTVQLSKLLQEN  
VPSYEKDPGFEQFKMSERLHGNWIRLYLEEKHSEVLFNLGSKVLRQYLDALKTLSSL SAQVAQYDIYS  
MMVGTVVVLEVL TLLLLSVPQALRRKAELEVPLSSPGFSLLFYLVILVLSAVHVI VCTSAESSCYFCGL  
SWLAAGGVMVLASALLCVIVSVL TNVLVGGNTPRKNPMHPSSRWSELDLLILLGTAGHVLSLGASSFVE  
EEHQTYWFLVNTLCLALSQETYRNYFLGDDGEPCCGLCVEQGHGATAAWQDGP GCDVLERDKGHGSPS  
TSEVLRGREKWMVLASPWILACCRLRLSLNQTGVQWAHRPDLGHWLTSSDHKAELSVLAALSLLVVFV  
LVQRCSPVSKAALALGLLGVYCYRAAIGSVRFPWRPDSKDISKGIIEARFVYVFLGILFTGTDLLK  
SQVIAADFKLKTVGLWEIYSGLVLLAALLFRPHNLPVLAFLSLLIQTLMTKFIWKPLRHDAAEITVMHYW  
FGQAFFYFQGN SNNIATVDISAGFVGLDITYVEIPAVLLTAFGTYAGPVLWASHLVHFLSSETRSGSALS  
HACFCYALIC SIPVFTYIVLVTSLRYHLFIWSVFS PKLLYEGMHLLITAAVCVFF TAMDQTRLTQS  
TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHV SF SYRYEAGRVIGDFKVMGTGFPEP  
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-Mlul



<b>ORF Size:</b>	2682 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>RefSeq:</b>	<a href="#">NM_001289051.1</a> , <a href="#">NP_001275980.1</a>
<b>RefSeq Size:</b>	3449 bp
<b>RefSeq ORF:</b>	2685 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>	99.3 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]