

Product datasheet for **RG238480**

PIGG (NM_001289053) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PIGG (NM_001289053) 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: | >RG238480 representing NM_001289053. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCCTACACAACCTTACCTTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCT
ACAGTTACTATGCCTCGAATCAAGGCATTGATGACGGGGAGCCTTCTGGCTTTGTGACGTCATCAGG
AACCTCAATTCTCTGCACTGCTGGAAGACAGTGTGATAAGACAAGCAAAGCAGCTGGAAAAAGAATA
GTCTTTTATGGAGATGAAACCTGGGTTAAATTATCCCAAAGCATTGTGGAATATGATGGAACAACC
TCATTTTTCGTGTGAGATTACACAGAGGTGGATAAATAATGTCACGAGGCATTTGGATAAAGTATTAATA
AGAGGAGATTGGGACATATTAATCCTCCACTACCTGGGGCTGGACCACATTGGCCACATTTAGGGGCC
AACAGCCCCCTGATTGGGCAGAAGCTGAGCGAGATGGACAGCGTCTGATGAAGATCCACACCTCACTG
CAGTCAAGGAGAGAGAGACGCCTTTACCCAATTTGCTGGTTCTTTGTGGTGACCATGGCATGTCTGAA
ACAGGAAGTACGGGGCCTCCTCCACCGAGGAGGTGAATACACCTCTGATTTAATCAGTTCTGCGTTT
GAAAGGAAACCCGGTGATATCCGACATCCAAAGCACGTCCAACAGACGGATGTGGCTGCGACACTGGCG
ATAGCACTTGCTTACCGATTCCAAAAGACAGTGTAGGGAGCCTCCTATTCCAGTTGTGGAAGGAAGA
CCAATGAGAGAGCAGTTGAGATTTTACATTTGAATACAGTGCAGCTTAGTAACTGTTGCAAGAGAAT
GTGCCGTGACTTGAGGAAAAGCATTGAGAGTCTTCAACCTGGGCTCCAAGTTCTCAGGCAG
TACCTGGATGCTCTGAAGACGCTGAGCTTGTCCCTGAGTGCACAAGTGGCCAGTACGACATCTATTTCG
ATGATGGTGGGACTGTGCTGGTTTTGGAGTTCTCACCTGCTCCTGCTCAGCGTCCCACAGGCACTG
CGCAGAAAGGCTGAGCTGGAAGTCCCACTGTCATCTCCTGGTTTTCTGCTCTTTATTTGGTGATC
CTGTTCTTTTCGGCCGTTACGTCATTGTGTGCACCTCAGCTGAAAGTTCGTGCTACTTCTGTGGCCTC
TCGTGGCTGGCGGACAGTGGGTGATGGTGTGCTGGCCTCGGCGCTGCTGTGTGATTGTGCTGTTCTG
ACCAACGTGCTCGTGGGTGAAACACCCCAAGGAAGTACGTACGGCTGGTTCTGGGAGTGTGACGTA
GTCCTTCTGCTCAGTGTGTTCTGTTATTTAGGCTGCCTTTCTGTTTACCAGACTCTGGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238480
 Blue=ORF Red=Cloning site Green=Tag(s)

MPYTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSPALLEDVIRQAKAAGKRI
 VFYGDETWVKLFPKHFVEYDGTTSFFVSDYTEVDNNVTRHLDKVLKRGDWDILILHYLGLDHIGHISGP
 NSPLIQQLSEMDSVLMKIHTSLQSKERETPLPNLLVLCGDHGMSETGSHGASSTEEVNTPLILISSAF
 ERKPGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRFLHLNTVQLSKLLQEN
 VPSYEKDPGFEQFKMSERLHGNWIRLYLEEKHSEVLFNLGSKVLRQYLDALKTSLSLSAQAQYDIYS
 MMVGTVVVLEVLTLLLL SVPQALRRKAELEVP LSSPGF SLLFYLVILVLSAVHVI VCTSAESSCYFCGL
 SWLAAGGVMLASALLCVIVSVL TNVL VGGNTPRKVRTAGSWECDV VLLLRLLFLLQAAFRLPDSG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

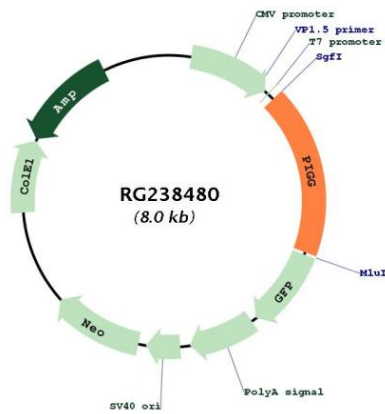
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001289053.1](#), [NP_001275982.1](#)

RefSeq Size: 3225 bp
 RefSeq ORF: 1443 bp
 Locus ID: 54872
 Cytogenetics: 4p16.3
 Protein Families: Transmembrane
 Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
 MW: 53.5 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 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]

Product images:



Circular map for RG238480