

Product datasheet for **RG214539**

PIGG (NM_017733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGG (NM_017733) 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:

>RG214539 representing NM_017733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCGGCTGGGCTCCGGACTTTTCGCTACCTGTTGCGTAGCGATCGAGGTGCTAGGGATCGCGGTCTTCC
 TTCGGGGATTCTCCCGCTCCCGTTCGTTCCTCTGCCAGAGCGGAACACGGAGCGGAGCCCCAGCGCC
 CGAACCTCGGCTGGAGCCAGTTCTAACTGGACCACGCTGCCACCACCTCTCTTCAAGTTGTTATT
 GTTCTGATAGATGCCTTGAGAGATGATTTTGTGTTGGGTCAAAGGGTGTGAAATTTATGCCCTACACAA
 CTTACCTTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCTACAGTTACTATGCC
 TCGAATCAAGGCATTGATGACGGGGAGCCTTCTGGCTTTGTGCGAGTCACTCAGGAACCTCAATTCTCT
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 GCCTTTACCCAATTTGCTGGTCTTTGTGGTGACCATGGCATGTCTGAAACAGGAAGTACCGGGGCTCC
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 GACATCCAAGACAGTCCAACAGACGGATGTGGCTGCGACACTGGCGATAGCACTTGCTTACCGATTCC
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 GTTATCATTTATTTATATGGAGTGTATTTCTCCAAAACCTCTCTACGAGGGAATGCACCTGCTCATTAC
 AGCTGCTGTCTGTGATTCTTACGGCAATGGATCAAACCAGACTCACACAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214539 representing NM_017733
 Red=Cloning site Green=Tags(s)

MRLGSGTFATCCVAIEVLGIAVFLRGFFPAPVRSSARAEHGAEPPEPSAGASSNWTLLPPLFSKVVI
 VLIDALRDDFVFGSKGVKFMPTTYLVEKGASHSFVAEAKPPTVMPRIKALMTGSLPGFVDVIRNLNSP
 ALLEDSDVIRQAKAAGKRIVFYGDDETWVKLFPKHFVEYDGTTSFFVSDYTEVDNNVTRHLDKVLKRGDWDI
 LILHYLGLDHIHISGPNSPLIGQKLEMSDVLMKIHTSLQSKERETPLPNLLVLCGDHGMSETGSHGAS
 STEEVNTPILISSAFERKPGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRF
 LHLNVTQLSKLLQENVPSEYKDPGEQFKMSERLHGNWIRLYLEEKHSEVLFNLGSKVLQRQYLDALKTSL
 LSLSAQVAQYDIYSMMVLTLLLSVPQALRRKAELEVPLSSPGFSLLFYLVILVLSAVHVIVCTSAESSC
 YFCGLSWLAAGGVMVLASALLCVIVSVL TNVL VGGNTPRKNPMHPSSRWSELDLL ILLGTAGHVL SLGAS
 SFVEEHQTWYFLVNTLCLALSQETYRNYFLGDDGEPCCGLCVEQGHGATAAWQDGPDCVLERDKGHG
 SPSTSEVLRGREKWMVLASPWLILACRLLRSLNQTGVQWAHRPDLGHWTSSDHKAELSVLAALSLLVV
 FVLVQRGCSVSKAALALGLLVGYCYRAAIGSVRFPWRPDSKDISKIGIEARFVYVFLGILFTGTDLL
 KSQVIAADFCLKTVGLWEIYSGLVLLAALLFRPHNLPVLAFLSLLIQTLMTKFIWKPLRHDAEITVMHYW
 FQQAFFYFQGNSNNIATVDISAGFVGLDITYVEIPAVLLTAFGTAGPVLWASHLVHFLSSETRSGSALSH
 ACFCYALICSIPVFTYIVLVTSLRYHLFIWSVFSKLLYEGMHLLITAACVFFTAMDQTRLTQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

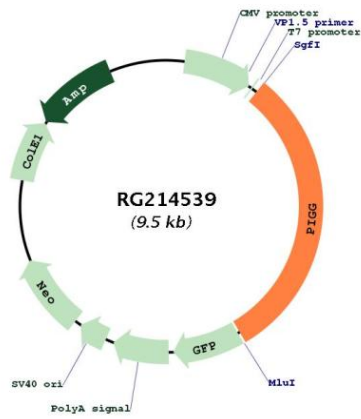


ACCN: NM_017733

ORF Size: 2925 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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_017733.4
RefSeq Size:	3242 bp
RefSeq ORF:	2928 bp
Locus ID:	54872
UniProt ID:	Q5H8A4
Cytogenetics:	4p16.3
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
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]

Product images:



Circular map for RG214539