

Product datasheet for **RC226289**

PIGG (NM_001127178) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIGG (NM_001127178) 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
ORF Nucleotide Sequence: >RC226289 representing NM_001127178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCGGCTGGGCTCCGGGACTTTCGCTACCTGTTGCGTAGCGATCGAGGTGCTAGGGATCGCGGTCTTCC
TTCGGGGATTCTCCCGGCTCCCGTTCGTTCTCTGCCAGAGCGGAACACGGAGCGGAGCCCCAGCGCC
CGAACCTCGGCTGGAGCCAGTTCTAACTGGACCAGCTGCCACCACCTCTCTTTCAGTAAAGTTGTTATT
GTTCTGATAGATGCCTTGAGAGATGATTTGTGTTGGGTCAAAGGGTGTGAAATTTATGCCTACACAA
CTTACCTGTGGAAAAAGGAGCATCTCACAGTTTTGTGGCTGAAGCAAAGCCACCTACAGTACTATGCC
TCGAATCAAGGCATTGATGACGGGGAGCCTTCTGGCTTGTGCGAGTCATCAGGAACCTCAATTCTCT
GCACTGCTGGAAGACAGTGTGATAAGACAAGCAAAAGCAGCTGGAAAAAGAAATAGTCTTTTATGGAGATG
AAACCTGGGTTAAATTATCCCAAAGCATTGTGGAATATGATGGAACAACCTCATTTTTCGTGCAGA
TTACACAGAGGTGATAAATGTCACGAGGCATTTGGATAAAGTATTAAGAGGAGATTGGGACATA
TTAATCTCCACTACCTGGGCTGGACCACATTTGCCACATTTTCAGGGCCCAACAGCCCCCTGATTGGGC
AGAAGCTGAGCGAGATGGACAGCGTGTGATGAAGATCCACACCTCACTGCAGTGAAGGAGAGAGAGAC
GCCTTTACCCAATTTGCTGGTCTTTGTGGTGACCATGGCATGTCTGAAACAGGAAGTCACGGGGCCTCC
TCCACCGAGGAGGTGAATACACCTCTGATTTAATCAGTTCTGCGTTTGAAGGAAAACCCGGTGATATCC
GACATCCAAAGCAGTCCAACAGACGGATGTGGCTGCGACACTGGCGATAGCACTTGGCTTACCGATTCC
AAAAGACAGTGTAGGGAGCCTCTATTCCAGTTGTGGAAGGAAGACCAATGAGAGAGCAGTTGAGATTT
TTACATTTGAATACAGTGCAGCTTAGTAACTGTTGCAAGAGAATGTGCCGCATATGAAAAAGATCCTG
GGTTTGAGCAGTTTAAATGTCAGAAAGATTGCATGGAACTGGATCAGACTGTACTTGGAGGAAAAGCA
TTCAGAAGTCTATTCAACCTGGGCTCCAAGTTCTCAGGCAGTACCTGGATGCTCTGAAGACGCTGAGC
TTGTCCCTGAGTGACAAGTGGCCAGTACGACATCTATTCGATGATGGTGGGACTGTCGTGGTTTTGG
AGGTTCTCACCTGCTCCTGCTCAGCGTCCCACAGGCACTGCGCAGAAAGGCTGAGCTGGAAGTCCCACT
GTCATCTCCTGGGTTTTCTGCTCTTTTATTTGGTGATCCTGGTTCTTTCGGCCGTTACAGTCATTGTG
TGCACCTCAGTGAAAGTTCGTGCTACTTCTGTGGCCTCTCGTGGCTGGCGGCAGGTGGGGTGATGGTGC



[View online »](#)

TGGCCTCGGCGCTGCTGTGTGATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGAAACACCCCAAG
 GAAGAACCCCATGCATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGACGGCGGGC
 CACGTCTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGAGCACCAGACCTGGTACTTCTTGTGAACA
 CCCTGTGTCTAGCTCTGAGCCAAGAACTACAGAACTACTTCTGGGAGATGACGGTGAGCCTCCGTG
 TGGCCTCTGTGTGAACAAGGGCATGACGGGGCCACAGCAGCGTGGCAGGACGGGCTGGCTGTGATGC
 CTGGAGCGAGACAAAGGCCACGGAAGCCCTCTACCTCCGAAGTCTCAGAGGCCGAGAAGTGGATGG
 TGCTGGCCAGTCCGTGGCTAATACTGGCCTGCTGCCGGTCTGCTGCCCTCCCTAAACCAGACAGGTGTGA
 GTGGGCTCACCGCCTGACCTCGGCCACTGGCTCACCAGCTCTGACCACAAAGCCGAGCTCTGTCTCTG
 GCTGCCCTCTCCCTCCTCGTAGTTTTGTGCTGGTGCAGAGGGGTGCTCCCCTGTGTCCAAGGCTGCC
 TGGCGCTGGGCTGCTGGGCTACTGCTACCGGGCGGCATCGGGAGTGTCCGTTCCCGTGGCGGCC
 GGACAGCAAGGACATTTCCAAGGTATTATTGAAGCTCGTTTTGTTTATGTCTTTGCTTGGCATTCTG
 TTCACGGGCACCAAGACTTACTTAAATCTCAAGTCATTGCTGCAGACTTCAAACAAGACTGTAGTT
 TATGGGAGATATAGTGGATTAGTTCTTCTGGCAGCCTGCTCTTTAGACCACATAATCTCCGGTCTT
 AGCATTAGCCTCTTGATTGACTCTAATGACTAAATCATCTGGAAGCCCTGAGACACGATGCAGCT
 GAGATTACTGTGATGCATTATTGGTTTGGTCAAGCATTCTCTATTTTCAGGGCACTCCAACAACATTG
 CCACCGTGGACATCTCCGAGGCTTCGTGGGCTTAGACACCTACGTGAAATCCCAGCCGTGCTCCTGAC
 AGCGTTTGGGACGTACGACGGGCTGTGCTGTGGCCAGCCACTAGTGCATTCCTGAGCTCAGAAACA
 CGCAGTGGTTCAGCACTGAGTCATGCTTCTGCTACGCACTGATTTGTTCTATTCCAGTTTTACGT
 ACATCGTTTTGGTGCATCTCTGCGTTATCATTATTTATATGGAGTGTATTTTCCAAAACCTTCTCTA
 CGAGGGAATGCACCTGCTCATTACAGCTGCTGTCTGTATTCTTACGGCAATGGATCAAACCAGACTC
 ACACAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226289 representing NM_001127178
 Red=Cloning site Green=Tags(s)

MRLGSGTFATCCVAIEVLGIAVFLRGFFPAPVRSSARAHEGAEPPEPSAGASSNWTTLPPLFSKVVV
 VLIDALRDDVFVFGSKGVKFMPTTYLVEKGASHSFVAEAKPPTVTMPRIKALMTGSLPGFVDVIRNLNSP
 ALLEDVIRQAKAAGKRIVFYGDETWVKLFPKHFVEYDGTTSFFVSDYTEVDNNVTRHLDKVLKRGDWDI
 LILHYLGLDHIHISGPNISLIGQKLEMDSVLMKIHTSLQSKERETPLNLLVLCGDHGMSETGSHGAS
 STEEVNTPILISSAFERKPGDIRHPKHVQQTDAATLAIALGLPIPKDSVGSLLFPVVEGRPMREQLRF
 LHLNTVQLSKLLQENVPSYEKDPGFEQFKMSERLHGNWIRLYLEEKHSEVLNLSKVLKRVLDALKTSL
 LSLSAQVAQYDIYSMMVGTVVVLEVLTLTLLSVPQALRRKAELEVPLSSPGFSLLFYLVILVLSAVHVIV
 CTSAESCYFCGLSWLAAGVMVLASALLCVIVSVLTVNLVGGNTPRKNPMHPSSRWSELDLLILLGTAG
 HVLSLGASSFVEEHHQTYFLVNTLCLALSQETRYNYFLGDDGEPCCGLCVEQGHGATAAWQDGPQCDV
 LERDKGHGSPSTSEVLRGREKWMVLASPWILACRLLRSLNQTGVQWAHRPDLGHWLTSDDHKAELSVL
 AALSLLVVFVLVQRGSPVSKAALALGLLVGYCYRAAIGSVRFPWRPDSKDISKGIIEARFVYVFLGIL
 FTGTDKLLKSQVIAADFLLKTVGLWEIYSLVLLAALLFRPHNLPVLAFLSLLIQLTMTKFIWKPLRHDA
 EITVMHYWFGQAFFYFQNSNNIATVDISAGFVGLDITYVEIPAVLLTAFGTYAGPVLWASHLVHFLSSET
 RSGSALSHACFCYALICSIPTVFTYIVLVTSLRYHLFIWSVFSKLLYEGMHLLITAACVFFVTAMDQTRL
 TQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

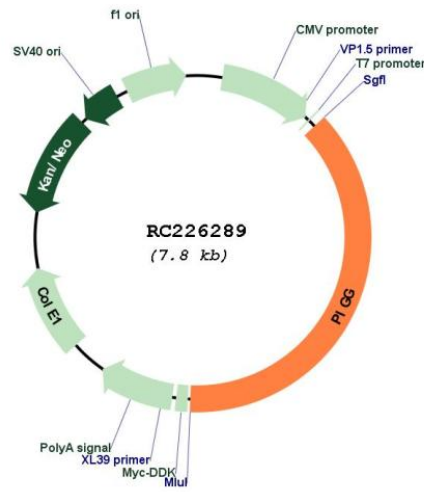
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127178
 ORF Size: 2949 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_001127178.3
RefSeq Size:	3266 bp
RefSeq ORF:	2952 bp
Locus ID:	54872
UniProt ID:	Q5H8A4
Cytogenetics:	4p16.3
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
MW:	108.6 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 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]