

Product datasheet for **RC207841**

PIGO (NM_152850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGO (NM_152850) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGO
Synonyms:	HPMRS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207841 representing NM_152850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAAAGCCTCAGTGTTCCTTCTGCTTCTTCTGCTTCTTCTACGCTGGCATTGCCCTCT
 TCACCAGTGGCTTCTGCTCACCCGTTTGGAGCTCACCAACCATAGCAGCTGCCAAGAGCCCCAGGCC
 TGGGTCCCTGCCATGGGGAGCCAAGGGAACCTGGGGCCTGCTGGATGGCTTCCCGATTTTCGCGGTT
 GTGTTGGTGTGATAGATGCTCTGCGATTTGACTTCGCCAGCCCCAGCATTACACGTGCCTAGAGAGC
 CTCCTGTCTCCCTACCCTTCTGGGCAACTAAGCTCCTTGACAGAGGATCCTGGAGATTCAGCCCCACCA
 TGCCCGGCTTACCGATCTCAGTTGACCCTCTACCACCACCATGCAGCGCCTCAAGGCCCTCACCCT
 GGCTCACTGCCTACCTTTATTGATGCTGGTAGTAACCTCGCCAGCCACGCCATAGTGAAGACAATCTCA
 TTAAGCAGCTCACCAGTGCAGGAAGGCGTGTAGTCTTCATGGGAGATGATACCTGGAAAGACCTTTCC
 TGGTGCTTTCTCAAAGCTTTCTTCTCCATCCTTCAATGTGAGAGACCTAGACACAGTGGACAATGGC
 ATCCTGGAACACCTTACCCACCATGGACAGTGGTGAATGGGACGTGCTGATTGCTCACTTCTGGGTG
 TGGACCACTGTGGCCACAAGCATGGCCCTCACCACCCTGAAATGGCCAAGAACTTAGCCAGATGGACCA
 GGTGATCCAGGGACTTGTGGAGCGTCTGGAGAATGACACACTGCTGGTAGTGGCTGGGGACCATGGGATG
 ACCACAAATGGAGACCATGGAGGGGACAGTGGAGTGGAGTCTCAGTGCCTCTTTCTGTATAGCCCCA
 CAGCAGTCTTCCCAGCACCCACCAGAGGAGCCAGAGGTGATTCCTCAAGTTAGCCTTGTGCCACGCT
 GGCCCTGCTGCTGGCCCTGCCATCCCATTGGGAATATCGGGGAAGTGTGGCTGAGCTATTCTCAGGG
 GGTGAGGACTCCCAGCCCCACTCCTCTGCTTTAGCCCAAGCCTCAGCTCTCCATCTCAATGCTCAGCAGG
 GTCCCGATTTCTCATACCTACTCAGTGTACTCAGGACCTCAAGTAAGGAGCTTCATCAGCTGCA
 GAACCTTCTCCAAGGCCTCTGCTGACTACCAGTGGCTTCTCCAGAGCCCCAAGGGGGCTGAGGGGACA
 CTGCCACTGTGATTGCTGAGCTGCAGCAGTTCCTGCGGGGAGCTCGGGCCATGTGCATCGAGTCTTGGG
 CTGTTTCTCTCTGAGCTTCTTCTCTACATCTGCTTGTGCTGGGATACCCGTCACCACCCTGGTCC
 TTTTACTGTGCCATGGCAGGCAGTCTCGGCTTGGGCCCTCATGGCCACACAGACCTTCTACTCCACAGGC
 CACCAGCTGTCTTCCAGCCATCCATTGGCATGCAGCCTTCGTGGGATCCCAGAGGTTCATGGCTCT
 GTACTTGGCTGCCTGCTTTGCTAGTGGGAGCCAACACCTTTGCCTCCCACCTCTCTTGCAGTAGGTTG
 CCCACTGCTCCTGCTCTGGCCTTCTCTGTGTGAGAGTCAAGGGCTGCGGAAGAGACAGCAGCCCCAGGG
 AATGAAGCTGATGCCAGAGTGCAGCCGAGGAGGAAGAGGAGCCACTGATGGAGATGCGGCTCCGGGATG
 CGCCTCAGCACTTCTATGCAGCACTGCTGCAGCTGGGCCCAAGTACCTTTATCCTTGGTATTAGAT
 TCTGGCCTGTGCCTTGGCAGCCTCCATCCTTCGCAGGCATCTCATGGTCTGGAAAGTGTGGCCCTAAG
 TTCATATTTGAGGCTGTGGGCTTATTGTGAGCAGCGTGGGACTTCTCCTGGGCATAGCTTTGGTATGA
 GAGTGGATGGTGTGAGCTCCTGGTTCAGGCAGCTATTTCTGGCCAGCAGAGG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207841 representing NM_152850
Red=Cloning site Green=Tags(s)

MQKASVLLFLAWVCFLFYAGIALFTSGFLLTRLELTNHSSCQEPGPGSLPWGSQKPGACWMSRFSRV
 VLVLIDALRFDAQPQSHVPPREPPVSLPFLGKLSLQRILEIQPHHARLYRSQVDPPTTTMQRKALTT
 GSLPTFIDAGSNFASHAIVEDNLIKQLTSAGRRVVFMGDDTWKDLFPGAFSKAFFPFSFNVRLDLDVNDG
 ILEHLYPTMDSGEWDLIAHFLGVDHCGHKHGHPEMAKKLSQMDQVIQGLVERLENTLLVVAGDHGM
 TTNGDHGGDSELEVSAALFLYSPTAVFPSTPPEEPEVIPQVSLVPTLALLLGLPIPFGNIGEVMAELFSG
 GEDSQPHSSALAQASALHLNAQQVSRFLHTYSAATQDLQAKELHQLQNLFSKASADYQWLLQSPKGAET
 LPTVIAELQQFLRGARAMCIESWARFSLFLLHLLAAGIPVTTPGPFTVPWQAVSAWALMATQTFYSTG
 HQPVFPAIHWHAAFVGFPEGHGCTWLPALLVGANTFASHLLFAVGCPLLLLWPFLLCESQGLRKRQPPG
 NEADARVRPEEEEEPLMEMRLRDAPQHFYAALLQLGLKYLFIILGIQLACALAAASILRRHLMVWKVFAK
 FIFEAVGFIVSSVGLLLGIALVMRVDGAVSSWFRQLFLAQQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_152850

ORF Size: 2016 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:

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_152850.3](#), [NP_690577.2](#)

RefSeq Size: 2482 bp

RefSeq ORF: 2019 bp

Locus ID: 84720

UniProt ID: [Q8TEQ8](#)

Cytogenetics: 9p13.3

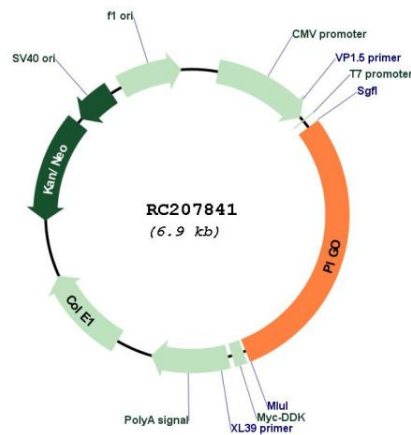
Protein Families: Transmembrane

Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways

MW: 74 kDa

Gene Summary: This gene encodes a protein that is involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid which contains three mannose molecules in its core backbone. The GPI-anchor is found on many blood cells and serves to anchor proteins to the cell surface. This protein is involved in the transfer of ethanolaminephosphate (EtNP) to the third mannose in GPI. At least three alternatively spliced transcripts encoding two distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RC207841