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Product datasheet for RC208313

PIGZ (NM_025163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGZ (NM_025163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGZ
Synonyms:	GPI-MT-IV; PIG-Z; SMP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208313 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGATCTGTGGATCCAGCGTAGCATCTGTAGCAGCTGGGACATCATTCCAGGTTTTGGGCCCGGTGT
GTTGGCAACAACTGGATCTGAAGATGGCAGTCAGGGTGCTTTGGGGTGGTCTCAGCCTGCTCCGAGTGCT
GTGGTGTCTCCTTCCGCAGACGGGCTATGTGCACCCAGATGAGTTCTTCCAGTCCCCTGAGGTGATGGCA
GAGGACATCCTGGGCGTTCAGGCCGCGCGGCCCTGGGAGTTTTACCCCAGCAGCTCCTGCCGCTCGGTGC
TCTTCCCCCTGCTGATCTCCGGTTCCACCTTCTGGCTGCTCAGGCTCTGGGAGGAGCTGGGGCCGTGGCC
TGGCCTGGTGAGCGGCTATGCGCTGCTGGTGGGGCCTCGACTCCTCCTCACTGCCCTTTCCTTTGCTCTG
GACGGGGCCGTGTACCACCTGGCCCCGCCGATGGGGGCGGATCGCTGGAACGCCCTGGCCCTGCTGTCTG
GTTCCTACGTCACCCTGGTCTTCTACACAAGGACCTTCTCCAACACCATTGAGGGACTCCTCTTCACGTG
GCTGCTGGTGCTGGTATCCTCCCATGTAACGTGGGGCCCTACACGCAAGGAGCCGGCGCCGGGTCCACGG
TGGCGCAGCTGGCTTCTTGGAGGCATTGTGGCTGCTGGCTTCTTCAACCGGCCCACCTTTCTGGCCTTTG
CTGTGGTCCCCCTCTACCTCTGGGGCACTCGTGGAGCCACAAACCCTGGTTTGAAGTCTCTGACCCGGGA
GGCCCTGGTGCTGCTCCCTGGGGCGACCCTCACAGCAGCGGTGTTTGTGGCCACGGACAGCTGGTATTTC
TCCAGCCCCGCTACATCCAGGAACCTTGTCCTGACACCTGTCAACTTCCTGCACTACAACCTGAATCCCC
AAAACCTGGCGAGACATGGCACGCACGCGCGGCTCACTCACCTGGCAGTCAACGGCTTCCTGCTCTTCGG
GGTGCTGCATGCCCAGGCCCTGCAGGCTGCGTGGCAACAGCTGCAAGTCGGCCTCCAGGCCTCTGCACAA
ATGGGCCTCCTGAGGGCACTGGGTGCCCGGAGCCTGCTGTCCAGCCCCAGGTCCTATCTCCTTCTCCTCT
ACTTCATGCCTCTGGCCCTGCTATCTGCCTTTAGCCACCAGGAGGCTCGGTTCCTGATTCCCCTCCTGGT
CCCCCTGGTCCTGCTTTGTAGTCCACAGACGCAGCCTGTGCCTTGGAAGGGCACTGTGGTCCTCTTCAAC
GCCCTCGGTGCCCTCCTCTTCGGCTGCCTGCATCAGGGGGGCCTGGTGCCTGGCCTGGAGTACCTGGAGC
AGGTGGTCCATGCCCCTGTGCTCCCAAGCACACCCACCCACTACACACTCCTCTTCACTCACACCTACAT
GCCCCCCCGGCACCTCCTACACCTCCCAGGCCTGGGGGCACCAGTGGAGGTGGTGGACATAGGGGGGACT
GAGGACTGGGCCCTGTGCCAAACCCTGAAAAGCTTCACCAGACAACCAGCCTGCCAAGTGGCTGGTGGGC
CATGGCTCTGCCGCCTCTTTGTGGTAACCCCTGGCACCACCAGGCGTGCCGTGGAGAAGTGCAGCTTCCC
CTTCAAGAATGAAACACTTTTATTTCCCCATCTGACCCTGGAGGATCCACCAGCCCTGTCCTCCTTGCTG
AGTGGGGCTTGGAGGGACCACCTCAGTCTTCACATTGTGGAGCTGGGGGAAGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208313 protein sequence
Red=Cloning site Green=Tags(s)

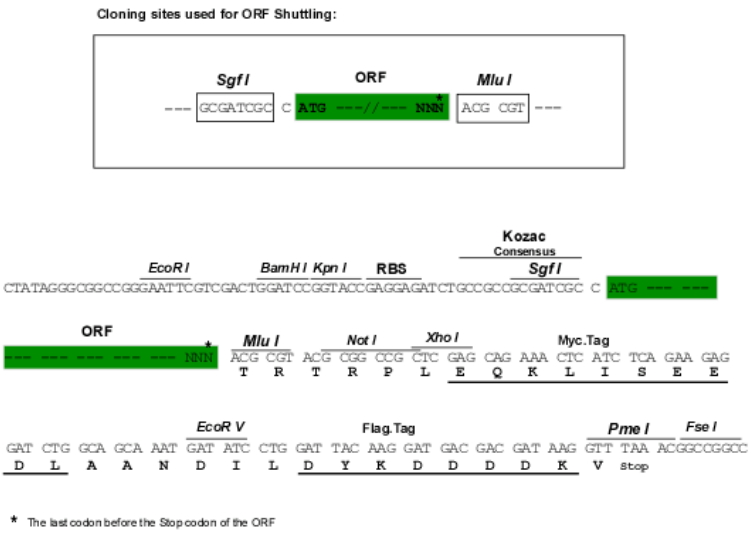
MQICGSSVASVAAGTSFQVLGPVCWQQLDLKMAVRVLWGGLSLLRVLWCLLPQTGYVHPDEFFQSPEVMA
EDILGVQAARPWEFYPSSSCRSVLFPLLISGSTFWLLRLWEELGPWPGLVSGYALLVGPRLLLTALSFAL
DGAVYHLAPPMGADRWNALALLSGSYVTLVFYTRTFSNTIEGLLFTWLLVLVSSHVTWGPTRKEPAPGPR
WRSWLLGGIVAAGFFNRPTFLAFAVVPLYLWGTRGATNPGLKSLTREALVLLPGATLTAAVFVATDSWYF
SSPATSRNLVLTPVNFLHYNLNPQNLARHGTHARLTHLAVNGFLLFGVLHAQALQAAWQQLQVGLQASAQ
MGLLRALGARSLLSSPRSYLLLLYFMPLALLSAFSHQEARFLIPLLVPLVLLCSPQTQPVPWKGTVVLFN
ALGALLFGCLHQGGLVPGLEYLEQVVHAPVLPSTPTHYTLLFTHTYMPPRHLLHLPGLGAPVEVVDIGGT
EDWALCQTLKSFTRQPACQVAGGPWLCRLFVVTPGTTRRAVEKCSFPFKNETLLFPHLTLEDPPALSSLL
SGAWRDHLSLHIVELGEET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6672_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025163

ORF Size: 1737 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_025163.4

RefSeq Size: 2759 bp

RefSeq ORF: 1740 bp

Locus ID: 80235

UniProt ID: Q86VD9

Cytogenetics: 3q29

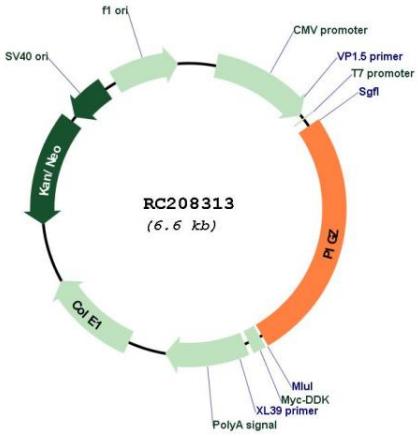
Protein Families: Transmembrane

Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis

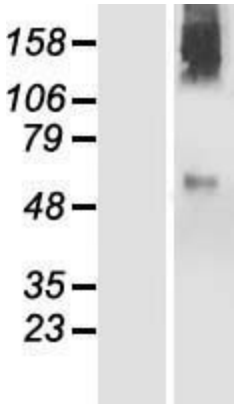
MW: 63.5 kDa

Gene Summary: The glycosylphosphatidylinositol (GPI) anchor is a glycolipid found on many blood cells that serves to anchor proteins to the cell surface. This gene encodes a protein that is localized to the endoplasmic reticulum, and is involved in GPI anchor biosynthesis. As shown for the yeast homolog, which is a member of a family of dolichol-phosphate-mannose (Dol-P-Man)-dependent mannosyltransferases, this protein can also add a side-branching fourth mannose to GPI precursors during the assembly of GPI anchors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208313



Western blot validation of overexpression lysate (Cat# [LY410861]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208313 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).