

Product datasheet for **RC213194**

PIGQ (NM_004204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGQ (NM_004204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGQ
Synonyms:	c407A10.1; DEE77; EIEE77; GPI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213194 representing NM_004204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGTCAAGGCCTTCTTCCCCAGTGTGCTGCTCGACGGACAGCGGGCTGCTGGTGGGACGGTGGG
 TGCCGGAGCAGAGCAGCGCCGTGGTCTGGCGGTCTGCACTTCCCTTCATCCCCATCCAGGTCAAGCA
 GCTCCTGGCCCAGGTGCGGCAGGCCAGCCAGGTGGGCGTGGCCGTGCTGGGCACCTGGTGCCACTGCCGG
 CAGGAGCCCGAGGAGAGCCTGGGCCGCTTCTGGAGAGCCTGGGTGCTGTCTTCCCCATGAGCCCTGGC
 TGCGGCTGTGCCGGGAGAGAGCGGCACGTTCTGGAGCTGCGAGGCCACCCACCGCAAGCGCCACTGC
 CCCCAGTGGCCCTGGTGAGGACCAGTTCATGCTCATCTTCTATGACCAGCGCCAGGTGTTGCTGTACAG
 CTACACCTGCCACCCTGCTGCCGACCCAGGCTGGAGCCACCACTGCCAGCACGGGGGGCTGGCTG
 CCGTCTTCGACACGGTAGCACGCAGTGAGGTGCTCTTCCGAGTGACCGCTTTGATGAGGGCCCCGTGCG
 GCTGAGCCACTGGCAGTCGGAGGGCGTGGAGGCCAGCATCTCGCGGAGCTGGCCAGGCGAGCCTCGGGA
 CCCATTTGCCTGTGTTGGCCAGCTGTGTGCTGGTCTCAGCTGTAGTGCCTGCCGAGTGTTCGAAGC
 TCTGGCCCTGTCTTCTCGGGAGCAAACCTCCACGTGCGAACAGCTCCGGCACCCGGCTGGAGCACCT
 CACGCTAATCTTCAGTACACGGAAGCGGAGAACCCTGCCAGCTGATGAGGAAGGCCAACACGGTGGCC
 TCTGTGCTGTGGACGTGGCCCTGGGCCTCATGCTGTCTGCTGGCTCCACGGGAGAAGCCGCATCGGGC
 ATCTGGCCGACGCCCTCGTTCTGTGGCTGACCACGTGGCCGAGGAGCTCCAGCATCTGCTGCAGTGGCT
 GATGGGTGCTCCCGCCGGCTCAAGATGAACCGTGCACTGGACCAGGTGCTGGGCCGCTTCTTCTCTAC
 CACATCCACCTGTGGATCAGCTACATCCACCTCATGTCCCCTTCGTGGAGCACATCCTTTGGCAGTGG
 GCCTCTCGGCCCTGCCTGGCCTGACGGTGGCCCTGTCCCTCTCGGACATTATCGCCCTCTCACCTT
 CCACATCTACTGCTTTTACGTCTATGGAGCCAGGCTGTACTGCCTGAAGATCCATGGCCTGTCTCACTG
 TGGCGTCTGTTCCGGGGAGAAGTGAACGTTCTGCGCCAGCGCTGGACTCCTGTTCTATGACCTGG
 ACCAGCTGTTATCGGGACTCTGCTCTTACCATCCTGCTCTTCTCTGCTTACCACAGCCCTGTACTA
 CCTGGTGTTCACCCTGCTCCGGCTCCTGGTGGTGCCTGCGAGGGCTGATCCATCTGCTCGTGGACCTC
 ATCAACTCCCTGCCGCTGTACTCACTGGGTCTTCCGGCTCTGCCGGCCCTACAGGCTGGCGCTGGCGTGA
 AGTTCGCTGCTCCGGCAGGAGCCGGCAGGCCCTCCGCTCCTGATGCAGATAAACCCACTGCCCTA
 CAGCCCGTGGTGCACACCTACCGCTCCCGAGCTGTGGCTGCCACCCCAAGCACTCTGGGGCGCCCTG
 TGCCGAAGCTGTTCTTGGGGAGCTCATCTACCCTGGAGGCAGAGAGGGGACAAGCAGGAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213194 representing NM_004204
 Red=Cloning site Green=Tags(s)

MVLKAFFPTCCVSTDSGLLVGRVWPEQSSAVVLAVLHFFPIPIQVKQLLAQVRQASQVGVAVLGTWCHCR
 QEPEESLGRFLES LGAVFPHEPWLRLCRERGGTFWSCEATHRQAPTAPGAPGEDQVMLIFYDQRQVLLSQ
 LHLPTVLPDRQAGATTASTGGLAAVFDTVARSEVLFRRDRFDEGPVRLSHWQSEGVEASILAELARRASG
 PICLLLASLLSLVSAVSACRVFKLWPLSFLGSKLSTCEQLRHRLEHLTLIFSTRKAENPAQLMRKANTVA
 SVLLDVALGLMLLSWLHGRSRIGHLADALVPVADHVAEELQHLLQWLMGAPAGLKMNRLDQVLGRFFLY
 HIHLWISYIHLMSPFVEHILWHVGLSACLGLTVALSLLSDIIALLTFHIYCFYVYGARLYCLKIHGLSSL
 WRLFRGKKWNVLRQRVDSYDLQDLFIGTLLFTILLFLLPTTALYYLVFTLLRLLVVAVQGLIHLLVDL
 INSLPLYSLGLRLCRPYRLAAGVKFRVLRHEAGRPLRLMQINPLPYSRVVHTYRLPSCGCHPKHWSGAL
 CRKFLGELIYPWRQRGDQKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4124_e05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004204

ORF Size: 1743 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_004204.5](#)

RefSeq Size: 2921 bp

RefSeq ORF: 1746 bp

Locus ID: 9091

UniProt ID: [Q9BRB3](#)

Cytogenetics: 16p13.3

Domains: Gpi1

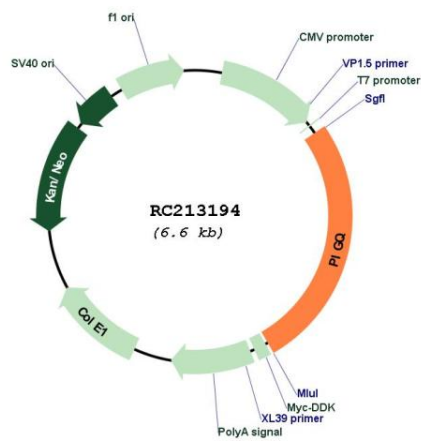
Protein Families: Transmembrane

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

MW: 65.2 kDa

Gene Summary: This gene is involved in the first step in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This gene encodes a N-acetylglucosaminyl transferase component that is part of the complex that catalyzes transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc to phosphatidylinositol (PI). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC213194