

Product datasheet for **SC319169**

PIGQ (NM_148920) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGQ (NM_148920) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGQ
Synonyms:	c407A10.1; DEE77; EIEE77; GPI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_148920.1
GTCTGCCCGGGCCCGCCCATCGGGGTCCCAACCCCATCCGGACCCCGCCGCCGAGCGC
GCGGCCCGGAAGCACCCGCCTCCCGCATGGTGTCAAGGCCTTCTCCCCACGTGCTG
CGTCTCGACGGACAGCGGGTCTGGTGGGACGGTGGGTGCCGGAGCAGAGCAGCGCCGT
GGTCTGGCGGTCTGCACTTCCCTTCATCCCATCCAGGTCAAGCAGCTCCTGGCCCA
GGTGGCGCAGGCCAGCCAGGTGGCGTGGCCGTGCTGGCACCTGGTCCACTGCCGGCA
GGAGCCCGAGGAGAGCCCTGGGCCGCTTCTGGAGAGCCCTGGGTGCTGTCTCCCCATGA
GCCTGGCTGCGGCTGTCCGGGAGAGAGCGGCACGTTCTGGAGCTGCGAGGCCACCA
CCGGCAAGCGCCCACTGCCCGGTGCCCTGGTGGAGACCAGGTCATGCTCATCTTCTA
TGACCAGCGCCAGGTGTTGCTGTACAGCTACACCTGCCACCCTTGGCCGACCGCCA
GGCTGGAGCCACCCTGCCAGCACGGGGGCTGGCTGCCGTCTTCGACACGGTAGCAGC
CAGTGAGGTGCTTCCGCAGTACCGCTTTGATGAGGGCCCGTGGCGTGAGCCACTG
GCAGTCGAGGGCGTGGAGGCCAGCATCCTCGCGAGCTGGCCAGGCGAGCTCGGGACC
CATTTCCTGCTGTTGGCCAGCCTGCTGTCGCTGGTCTCAGCTGTCAAGTCCCGAGT
GTTCAAGTCTGGCCCTGTCTTCTCGGGAGCAAACCTCCACGTGCGAACAGCTCCG
GCACCGGCTGGAGCACCTCACGTAATCTTCAGTACACGGAAGGCGGAGAACCCTGCCCA
GCTGATGAGGAAGGCCAACACGGTGGCCTCTGTGCTGCTGGACGTGGCCCTGGGCCTCAT
GCTGCTGTCTGGCTCCACGGGAGAAGCCGCATCGGGCATCTGGCCGACGCCCTCGTTCC
TGTGGCTGACCACGTGGCCGAGGAGCTCCAGCATCTGCTGCAGTGGTGTATGGGTGCTCC
CGCCGGCTCAAGATGAACCGTGCCTGGACCAGGTGCTGGGCCGCTTCTTCTTACCA
CATCCACTGTGGATCAGCTACATCCACCTCATGTCCCTTCGTGGAGCACATCCTTTG
GCACGTGGGCCTCTCGCCTGCCTGGCCTGACGGTGGCCCTGTCCTCCTCTCGGACAT
TATCGCCCTCTCACCTCCACATCTACTGCTTTACGTCTATGGAGCCAGGCTGTACTG
CCTGAAGATCCATGGCCTGTCTACTGTGGCGTCTGTTCCGGGGGAAGAAGTGAACGT
TCTGCGCCAGCGGTGGACTCCTGTTCTATGACCTGGACCAGCTGTTATCGGGACTCT
GCTCTTACCATCCTGCTTTCCTCCTGCCTACCACAGCCCTGTACTACCTGGTGTTCAC
CCTGCTCCGGCTCCTGGTGGTGGCGTGCAGGGCCTGATCCATCTGCTCGTGGACCTCAT
CAACTCCCTGCCCTGTACTCACTGGGTCTTCGGCTGTCGGGCCCTACAGGCTGGCGGA
TAAACCCACTGCCCTACAGCCGCGTGGTGCACACCTACCCTCCCCAGCTGTGGCTGCC
ACCCCAAGCACTCCTGGGGCCCTGTGCCGAAGCTGTTCTTGGGGAGCTCATCTACC
CCTGGAGGCAGAGAGGGGACAAGCAGGACTGAGGGAAGTCTGGCTCGCCTGGCACCACC
ACACGGCCACAGCCAGCCATCTGCTCTGCCAGGGTGGCACCAGCTCAGCTGGCGCATGTC
CTGTGCTTTGTGGACGCTGCTGTGTCTCCTGAACACGGCAGGCCCTGCTATCACACCTT
GGGCTTGGAGGTATTGGGAGTGAGCAGATGTGGGGTGGCCAGCCAGGCTGGCCGCACT
CCATCACTGGCACTGCCTGCCTTGGGACCCGCTTCCCACCTGCTGCGGTACCATGGTGG
CGAGCACAGCAACCCAGGTGTCCAGAGCACTGCCCATGCCACCCTGTGTACCCAGGT
CCAGAGGGTCCGTCCACCACAGCAGCCCAAGTGGAGGGCTGGTCTCCCTGGGGCTCCC
CAGTGGCTCTGCCCTGGCTGTGGGGTGGAGGGACCTTCCAGGATGAACCCCCAGTCC
CAGGCACCCCTAGCTCCCTCAGCCGAACAGCACCTGCATCTGGGGATTGAAGCAGTC
GCTGACCCCGTCCCCAGCGGGCCCGGCCCTCACTCCCTGAACACACGGGGTTTATTT
GCGGATGTTCCCTGGAGAGGTGCTTTGTGAAGAAACCATCAGCAGGCTGTGAGCATCGC
CAGGCTGCTGTGGGGGCGGGAGCAGCCTCAGTGTCAAGGGCCCGCCACTGACCCAGCCG
TACCTATTGTCACCGGTGCCCGTAGCAGCAGGTCTGCGGCCAAATCTGTCTCCCTTC
ATGGGCCCTCCAGGGAAGGAGGAAGCCCTGCTGTGCAGACACCTCTGTGGCCCCCAGGA
GTGTGAGTGGCTGGGGAGGGGGCGTGGCACTGAGGCCGAAAGTGCCTGCCAGACGGCA
CGGTCTGGGTGCGGGTGTCCCTGTGAGCCGAGTCCGCTTCCAGGAGGGAGCCTGCAGG
TGCCGGCTGGTGGGGATGACGCGCTGTGGGTGGGAGGAGGCAGCGCCATCTCAGCAG
CACCAGGACTGCCTGGGACTCCCTGGCAACCCAGCACCGGGGAAGCCGTGAGCTGCTGTG
ACAATAAAACCTGCCCGTGTCTGGAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Please inquire

ACCN:	NM_148920
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_148920.1</u> , <u>NP_683721.1</u>
RefSeq Size:	2878 bp
RefSeq ORF:	2283 bp
Locus ID:	9091
UniProt ID:	<u>Q9BRB3</u>
Cytogenetics:	16p13.3
Domains:	Gpi1
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>