

## Product datasheet for **MR230765**

### **Pigq (NM\_001291025) Mouse Tagged ORF Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                        |
| Product Name:      | Pigq (NM_001291025) Mouse Tagged ORF Clone |
| Tag:               | Myc-DDK                                    |
| Symbol:            | Pigq                                       |
| Synonyms:          | Gpi1; Gpi1h; Gpi1p; Gpih                   |
| Vector:            | pCMV6-Entry (PS100001)                     |
| E. coli Selection: | Kanamycin (25 ug/mL)                       |
| Cell Selection:    | Neomycin                                   |



[View online »](#)

ORF Nucleotide  
Sequence:

>MR230765 representing NM\_001291025  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTGCTCAAGGTCTTCTTCCCACGTGCTGTGCCTCGCAGACAGTGGCTGTTAGTGGGACGATGGG  
TTCCAGGACAGAGCAGTGTGATCCTGGCCGTGGTGCACCTTCCCTTCATCCCCATCCAAGTCAAGGA  
GCTCCTGGCCCAGGTGCAGAAGGCCAGTCAAGTACCAGTGGCTGTGCTAGGGACCTGGTGCCACCCTCAG  
CAGGAACCGCAGGAGAGCCTGGGGAATTCCTGGAGGGCCTGGGCACCATCTTCTCCCATGACCCCTGGT  
TGCAGCTCTGCCGGGAGAGGGGTACCAGACTCTGGAGCTGCAAGGCCACTTACCCGCAGATGTCTAACCC  
TCTGGACATGCACCCGAAGAGCAGTCTGCTCATCTTCTATGATCAGCGCAAGCTGCTGCTCTCCTGG  
TTGCATCCGCCTCCAGTCTGCCTGCCTGCCAGATGGGAGACACCACAGCCAGCACCAGGAGGCTAGCTG  
ACATCTTTGACACAGTGGCAGCAGCGAGGTGCTCTTCCGAAATGACCAATTTGATGAGAGACCCGTACG  
CCTGAGCCACTGGCAATCAGAGGGAGTGGAGGCCAGCATACTTGTGGAGTTGGCAAAGCGGGCCTCTGGG  
CCTGTCTGCCTGCTGCTGGCTTCTCTGTTGCCCTGATCTCAGCAGCTAGTGCTTCCCGGTATGGAAGC  
TGTGGCCACTTTCCTTCATCAGAAGCAAGCTCTCCACTTGTGAGCAGCTCCATCACCCGGCTGAAGCACCT  
CTCCTTCACTTTCAGCACGGAGAAAGCCAGAATCCCATGCAGCTGATGAGGAAGGCCAACATGCTGGTT  
TCTGTGCTACTGGATGTGGCCCTTGGCTTGTGCTGCTCTTGGCTCCACAGCAATAACCGAATTGGAC  
AGCTGGCAATGCCCTGGTCCCTGTGGCTGATAGTCAAAGCAGTGTCTCCGTGGAAGTCTTGTGGGCTCT  
CTTCTGCTCCGTAGTGGGATCCCTGCTGGGTGCTTTGTTGCCAGGCCAGGAATCTGGGGCAGCAGTG  
GGCTCCTCTCAGCTTTGTGAGATCTGTGGAGTCCAGTCCAGTGGAAAGAGGAGCTGGAGCTGGGTGAAC  
GGCGCGTGGCTGAGGAGCTCCAGCATCTGCTGCAGTGGCTGATGGGTGCTCCTGCTGGGCTCAAGATGAA  
TCGGGCACTGGATCAGGTGCTAGGCCGCTTTTTCTGTACCACATCCATCTGTGGATAAGCTATATCCAC  
CTTATGTCCCTTTATTGAGCATATCCTGTGGCATGTGGGACTCTCAGCCTGCCTTGGACTGACTGTTG  
CTCTGTCCATCTTTTCGGATATCATCGCCCTTCTCACCTTCCACATCTATTGCTTCTATGTCTACGGTGC  
CAGGCTGTACTGCCTGAAGATCTATGGCCTTCTCTCTCTGCGCTGTTCCGGGGGAAGAAGTGAAT  
GTTCTGCGCCAGCGAGTGGATTCTTGTTCCTATGACCTTGACCAGCTCTTATTGGGACCTTGTCTTCA  
CCATCCTGGTCTTCTGTACTCCACCACCCTGCTGACTACCTGGTATTCACCCTGCTCCGGCTCCTGGT  
GATCACTGTGCAAGGCTTAATCCATCTACTTGTAGACCTCATCAATCCCTGCCACTATACTCCCTTGGC  
CTTCGACTCTGCCACCCTACAGGCTGGCAGCTGGTGTGAAGTTCAGAGTCTGGAAAAGGAGGCAGGCA  
GACCCCTCCGCTCCTGATGCAGATAAACCCCTGTCTATAACCATGTGATGCACATCTACCGTCTGCC  
TCGCTGTGGCTGCCATCCAAGCACTCCTGGGTACCCTGTGCCGAAAGCTGGTCTTCGGAGAGCTCATC  
TACCCCTGGAGGCAGAGAGGACAAACAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230765 representing NM\_001291025  
 Red=Cloning site Green=Tags(s)

MVLKVFPTCCASADSGLLVGRWVPGQSSAVILAVVHFFPIPIQVKELLAQVQKASQVPVAVLGTWCHRQ  
 QEPQESLGNFLEGLGTIFSHDPWLQLCRERGRTRLSCKATYPQMSNPLDMHPPEEQVMLIFYDQRKLLLSW  
 LHPPPVLPAQMGDTTASTGGLADIFDTVARSEVLRNDQFDERPVRLSHWQSEGVEASILVELAKRASG  
 PVCLLLASLLSLISAASACRLWKLWPLSFIRSKLSTCEQLHHRKHLKLSFIFSTKAQNPMLMRKANMLV  
 SVLLDVALGLLLSWLHSNNRIGQLANALVPVADSQSSVSVEVLWALFCSVSADACWVCLLPQESGAAV  
 GSSQLCEICGGHPSRKEELELGERRVAEELQHLLQWLMGAPAGLKMNRALDQVLGRFFLYHIHLWISYIH  
 LMPFIEHILWHVGLSACLGLTVALSIFSDIALLTFHIYCFYVYGARLYCLKIYGLSSLWRLFRGKKWN  
 VLRQRVSDCSYDLQDLFIGTLLFTILVFLPTTALYYLFTLLRLLVITVQGLIHLVDLINSPLYSLG  
 LRLCRPYRLAAGVKFRVLEKEAGRPLRLMQINPLSYNHVMHIYRLPRCGCHPKHSWGTLCRKLVFGELI  
 YPWRQREDKQD

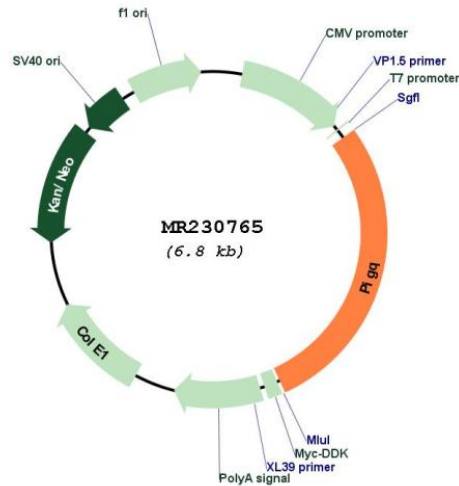
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001291025

**ORF Size:** 1923 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\\_001291025.1](#), [NP\\_001277954.1](#)

|               |  |
|---------------|--|
| RefSeq Size:  | 3295 bp  |
| RefSeq ORF:   | 1926 bp  |
| Locus ID:     | 14755  |
| Cytogenetics: | 17 A3.3  |
| MW:           | 73 kDa   |
| Gene Summary: | Part of the complex catalyzing the transfer of N-acetylglucosamine from UDP-N-acetylglucosamine to phosphatidylinositol, the first step of GPI biosynthesis. [UniProtKB/Swiss-Prot Function] |