

Product datasheet for **MG209104**

Pigq (NM_011822) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigq (NM_011822) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigq
Synonyms:	Gpi1; Gpi1h; Gpi1p; Gpih
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209104 representing NM_011822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCTCAAGGTCTTCTTCCCCAGTGTGCTCGCGACAGTGGCTGTTAGTGGGACGATGGG
 TTCAGGACAGAGCAGTGTGATCCTGGCCGTGGTGCCTTTCCCTTCATCCCATCCAAGTCAAGGA
 GCTCCTGGCCAGGTGCAGAAGGCCAGTCAAGTACCAGTGGCTGTGCTAGGGACCTGGTCCACCCTCAG
 CAGGAACCGCAGGAGAGCCTGGGAATTTCTGGAGGGCCTGGGCACCATCTTCTCCATGACCCCTGGT
 TGCAGCTCTGCCGGGAGAGGGTACCAGACTCTGGAGCTGCAAGGCCACTACCCGCAGATGTCTAACCC
 TCTGGACATGCACCCGAAGAGCAGTGTGCTCATCTTCTATGATCAGCGCAAGCTGCTGCTCCTGG
 TTGCATCCGCCTCCAGTCTGCCTGCCAGATGGGAGACACCACAGCCAGCACCGGAGGCTAGCTG
 ACATCTTTGACACAGTGGCAGCAGCGAGGTGCTCTTCCGAAATGACCAATTTGATGAGAGACCCGTACG
 CCTGAGCCACTGGCAATCAGAGGGAGTGGAGGCCAGCATACTTGTGGAGTTGGCAAAGCGGGCCTCTGGG
 CCTGTCTGCCTGTGCTGGCTTCTGTGTTCCCTGATCTCAGCAGCTAGTGCTTCCCGCTATGGAAGC
 TGTGGCCACTTTCCTTCATCAGAAGCAAGCTCTCCACTTGTGAGCAGCTCCATCACCGGCTGAAGCACCT
 CTCCTTCATCTTACGACGGAGAAAGCCAGAATCCCATGCAGCTGATGAGGAAGGCCAACATGCTGGTT
 TCTGTGCTACTGGATGTGGCCCTTGGCTTGTGCTGCTCTTGGCTCCACAGCAATAACCGAATTGGAC
 AGCTGGCAATGCCCTGGTCCCTGTGGCTGATCGCGTGGCTGAGGAGCTCCAGCATCTGCTGCAGTGGCT
 GATGGGTGCTCCTGTGGCTCAAGATGAATCGGGCACTGGATCAGGTGCTAGGCCGCTTTTTCTGTAC
 CACATCCATCTGTGGATAAGCTATATCCACCTTATGTCCCCTTATTGAGCATATCTGTGGCCTGTGG
 GACTCTCAGCCTGCCTTGGACTGACTGTGCTGTCCATCTTTTCGGATATCATCGCCCTTCTCACCTT
 CCACATCTATTGCTTCTATGTCTACGGTGCCAGGCTGTACTGCCTGAAGATCTATGGCCTTTCCTCTCTC
 TGGCGTCTGTTCCGGGGGAAGAAGTGAATGTTCTGCGCCAGCAGTGGATTCTTGTTCCTATGACCTTG
 ACCAGCTTTCATTGGGACCTTGTCTTCCACCCTCCTGGTCTTCTTGTACCCACCACCGCTCTGTACTA
 CCTGGTATTCACCCTGCTCCGGCTCCTGGTACTGTCAGGCTTAATCCATCTACTGTAGACCTC
 ATCAATCCCTGCCACTATACTCCCTTGGCCTTCGACTCTGCCGACCCTACAGGCTGGCAGCTGGTGTGA
 AGTTCAGAGTTCTGAAAAGGAGGCAGGCAGCCCTCCGCTCCTGATGCAGATAAACCCCTGTCTTA
 TAACCATGTGATGCACATCTACCGTCTGCCTCGCTGTGGCTGCCATCCCAAGCACTCTGGGGTACCCTG
 TGCCGAAAGCTGGTCTTCGGAGAGCTCATCTACCCTGGAGGCAGAGAGGACAACAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209104 representing NM_011822
 Red=Cloning site Green=Tags(s)

MVLKVFPTCCASADSGLLVGRWVPGQSSAVILAVVHFFPIPIQVKELLAQVQKASQVPAVLGTWCHRQ
 QEPQESLGNFLEGLGTIFSHDPWLQLCRERGRTRLSCKATYPQMSNPLDMHPPEEQVMLIFYDQRKLLLSW
 LHPPPVLPAQMGGDTTASTGGLADIFDVARSEVLFNRDQFDERPVRLSHWQSEGVEASILVELAKRASG
 PVCLLLASLLSLISAASACRLWKLWPLSFIRSKLSTCEQLHHRLKHL SFIFSTEKAQNPMQLMRKANMLV
 SVLLDVALGLLLLSWLHSNNRIGQLANALVPVADRVAEELQHLLQWLMGAPAGLKMNRLDQVLGRFFLY
 HIHLWISYIHLMSPFIEHILWHVGLSACLGLTVALSIFSDIALLTFHIYCFYVYGARLYCLKIYGLSSL
 WRLFRGKKWNVLRQRVDSCSYDLDFIGTLLFTILVFLPTTALYYLVFTLLRLLVITVQGLIHLLVDL
 INSLPLYSGLRLCRPYRLAAGVKFRVLEKEAGRPLRLLMQINPLSYNHVMHIYRLPRCGCHPKHSWGL
 CRKLVFGEIYIPWRQREDKQD

TRTRPLE - GFP Tag - V

Restriction Sites:

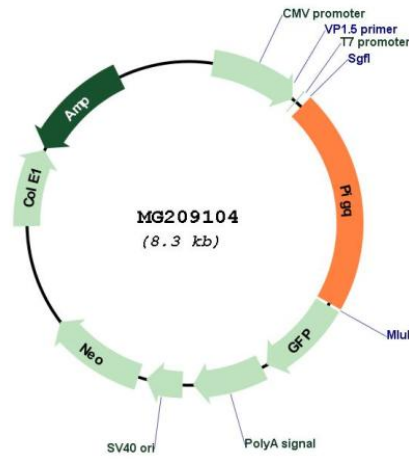
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011822
 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:	<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:	NM_011822.4
RefSeq Size:	3084 bp
RefSeq ORF:	1746 bp
Locus ID:	14755
UniProt ID:	Q9QYT7
Cytogenetics:	17 A3.3
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]