

Product datasheet for MR205209

G6pc3 (NM_175935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G6pc3 (NM_175935) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G6pc3
Synonyms:	0710001K01Rik; AU019276; AU045429; AV128920; AW545836; UGRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205209 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCCACGCTGAGCGCGGGCATCATAATGGCTGAAGCACTACAGAACCGGCTTCCCGGGCTAGAGA
ATATGTGGCTCTGGGTACCTTTCTGGCGATCCTAAGAATCTTTTTAGTTCTGCTTCCCCGGGCCTA
CTACGCCCTCCCGCCCTGGGCATCTCCGTGCTCTGGATCACCTCATTGCTGAGTGGCTCAACCTTGTC
TTCAAGTGGTTTCTGTTGGAGACAGGCCCTTTGGTGGTGCATGAATCCGGTACTCCACCCAGACTC
CAATCCAGATTCACCAGTCCCTTCTTCTGTGAGACTGGTCCAGGCAGCCCTCCGGCCACTGCATGAT
CACAGGCGCAGCTCTTTGGCCTGTAATGACGGCATTCTTCTCAGGTGGCTTCTCGGTCCCGCAGCCCC
TGGGTGAGGGTGATTCTGGCCTGGCTTATTGTACCTTCTATTGGCAGTCGGCCTATCTCGGGTCTTCC
TCTTAGCACATTTCCCTACCAAGTGTGGGCGGCCTTATTGTTGGTGTGCCCTTGGCTGGCTAATGAG
CCCCGGGTACCCATGGAGCGGGAGCTTAGCTTTATGGGTTGACTGCTCTGGCCCTCATGCTGGGTGCC
AGCCTCATGTATTGACTCTCTTACACTGGGCCTAGATCTTCTGGTCCATCAACCTGGCTTCCAAGT
GGTGTGAACGGCCGAGTGGGTGCATGGACAGTCGGCTTTTGCTCACTGAGCCGTGACTCAGGATC
TGCCCTGGGTCTGGGCATTGCCCTCCACACTCCCTGCTATGCCAGATACGGCGGGCCACCTAGGAAT
GGCCAGAAAATAGCTTGTCTTTGTGCTGGCCATGGGGCTGCTGGTCTTCTGGAATGGCTGGGCTACCCAC
CTCAGATCAGCCTCTTCTACATCTTCAACTTCTCAAGTATACCCTCTGGCCGTGCTGGTCTTGGCCCT
TGTGCCCTGGTGGTGCACACATTGAGTGACCAGGAAGCACCGCCATTGCTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205209 protein sequence
Red=Cloning site Green=Tags(s)

MESTLSAGIIMAEALQNRLPGLNMWLWVTF LGDPKNLFQFCFPAAYYASRRLGISVLWITFIAEWLNLV
 FKWFLFGDRPFVWVHESGYSTQTP IQIHQFPSSCETGPGSPSGHCOMITGAALWPVMTA ISSQVASRSRSP
 WVRVIPGLAYCTFLLAVGLSRVFLLAHFPHQVLGGLIVGAALGWLMSRPVMERELSFYGLTALALMLGA
 SLMYWTLFTLGLDLSWSINLASKWCERPEWVHMDSRPFASLSRDSGSALGLGIALHTPCYAQIRRAHLGN
 GQKIACFV LAMGLLVFLEWLGYPPQISLFYIFNFLKYTLWPCLVLALVPWVHTLS DQEAPP IRS S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175935

ORF Size: 1041 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_175935.3](#), [NP_787949.2](#)

RefSeq Size: 1612 bp

RefSeq ORF: 1041 bp

Locus ID: 68401

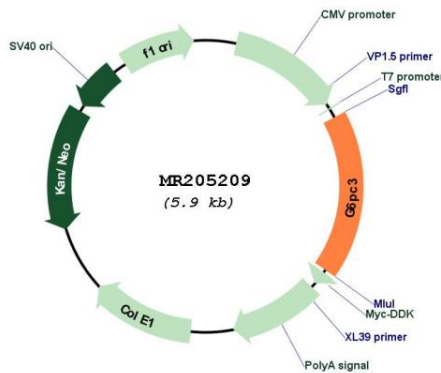
UniProt ID: [Q6NSQ9](#)

Cytogenetics: 11 D

MW: 38.8 kDa

Gene Summary: Hydrolyzes glucose-6-phosphate to glucose in the endoplasmic reticulum. May form with the glucose-6-phosphate transporter (SLC37A4/G6PT) a ubiquitously expressed complex responsible for glucose production through glycogenolysis and gluconeogenesis. Probably required for normal neutrophil function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205209