

## Product datasheet for **RR202088**

### G6pc (NM\_013098) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	G6pc (NM_013098) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G6pc
Synonyms:	G6Pase
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202088 representing NM_013098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGGAAGAATGAACGTGCTCCACGACTTTGGGATCCAGTCGACTCGCTACCTCCAAGTGAATTACG  
AAGACTCCAGGACTGGTTTGTCTTGGTGTCTGTGATCGCTGACCTCAGGAACGCCTTCTATGTCCTCTT  
TCCCATCTGGTCCACATTCAAGAGACTGTGGGCATCAATCTCCTCTGGGTGGCAGTGGTTGGAGACTGG  
TTCAACCTCGTCTTTAAGTGGATTCTTTTTGGACAGCGCCGATTTGGTGGTCCCTGGACTGACTATT  
ACAGCAACAGCTCCGTGCCTCTGATAAAACAGTCCCCCGTCACCTGTGAGACTGGACCAGGGAGTCCCTC  
GGGCCATGCCATGGGCACAGCAGGTGTATACTACGTTATGGTTACTTCTACTCTCGCTATCTTTCGTGGA  
AAGAAAAAGTCAACGTATGGATTCCGGTCTTGAATGTCGCTTTGGTGGGTAAGTGGGCTGTGCAGC  
TGAACGTCTGTCTGTCCCGGATCTACCTTGCGGCTCACCTTCCCCATCAGGTGGTGGCTGGAGTCTTGT  
AGGCATTGCTGTGGCTGAACTTTCAGCCACATCCGGGGCATCTACAATGCCAGCCTCCAGAGGACTGT  
CTCATCACCTTCTCTGTTTGGTTTCGCACTTGGATTTACCTGCTGCTAAAGGGGCTAGGGGTGGACC  
TCCTGTGGACTTTGGAGAAGGCCAAGAGATGGTGTGAGCGCCCGAGTGGTCCACCTTGACACTACACC  
CTTTGCCAGCCTTTCAAAAACCTGGGGACCCTTTGGGTTGGGCTGGCCCTCAACTCCAGCATGTAC  
CGCAAGAGCTGCAAAGGAGAAGTGCAGCAAGTCCGCTCCATTCCGTTTGGCCTGCATCGTGCCTCCTTGG  
GCCTGCTGCATCTTTGACTCGCTGAAGCCCCGTCAGATTGAGTCGATCTTCTACATCTTGTCTTT  
CTGCAAGAGTGCAGCCGTCCTTTGCATCTGTGAGTCTTATCCCTACTGCCTAGCCCGCTCCTGGGA  
CAGACACACAAGAAGTCTTTCAGACACACAAGAAGTCTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202088 representing NM\_013098  
 Red=Cloning site Green=Tags(s)

MEERMNVLHDFGIQSTRYLQVNYEDSQDWFVLVSVIADLRNIFYVLPFIWFHIQETVGINLLWVAVVDW  
 FNLVFKWILFGQRPYWWVLDTDYSSNSSVPLIKQFPVTCETGPGSPSGHAMGTAGVYVMVTSTLAIFRG  
 KKKSTYGFRCNLNVVLWLGWAVQLNVCLSRILYLAHFPHQVAVGLSGIAVAETFSHIRGIYNASLQRYC  
 LITFFLFGFALGFYLLKGLGVDLLWTLEKAKRWCERPEWVHLDTPFASLFKNLGTLLGLGLALNSSMY  
 RKSCKGELRKSLPFRACIVASLGLLHLFDSLKPPSQIESIFYILSFCKSATVFPASVSLIPYCLARLLG  
 QTHKKSLLQTHKKSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

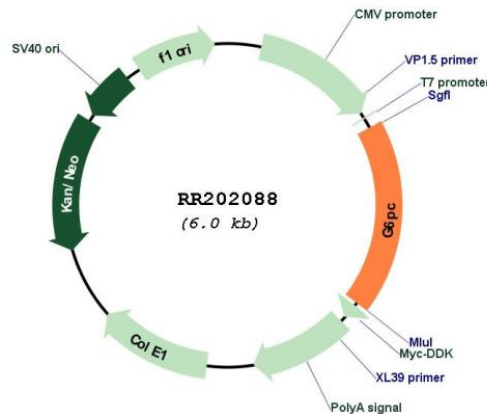
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_013098

<b>ORF Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq Size:</b>	2293 bp
<b>RefSeq ORF:</b>	1074 bp
<b>Locus ID:</b>	25634
<b>UniProt ID:</b>	<a href="#">P43428</a>
<b>Cytogenetics:</b>	10q31
<b>MW:</b>	40.6 kDa
<b>Gene Summary:</b>	catalyzes the conversion of D-glucose 6-phosphate and H2O to D-glucose and phosphate in gluconeogenesis [RGD, Feb 2006]