

Product datasheet for **MG205458**

G6pc (BC013448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G6pc (BC013448) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	G6pc
Synonyms:	G6Pase, Glc-6-Pase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205458 representing BC013448 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAAGGAATGAACATTCTCCATGACTTTGGGATCCAGTCGACTCGCTATCTCCAAGTGAATTACC
AAGACTCCCAGGACTGGTTCATCCTTGTGTCTGTGATTGCTGACCTGAGGAACGCCTTCTATGTCCTCTT
TCCCATCTGGTTCATCTTAAAGAGACTGTGGCATCAATCTCCTCTGGGTGGCAGTGGTCGGAGACTGG
TTCAACCTCGTCTTCAAGTGGATTCTGTTGGACAACGCCGTATTGGTGGTCTCGACACCGACTACT
ACAGCAACAGCTCCGTGCCTATAATAAAGCAGTTCCTGTACCTGTGAGACCGGACCAGGAAGTCCCTC
TGGCCATGCCATGGGCGCAGCAGGTGTACTATGTTATGGTCACTTCTACTCTTGCTATCTTTCGAGGA
AAGAAAAAGCCAACGTATGGATTCCGGTGTGTAACGTCATCTTGTGGTGGGATTCTGGGCTGTGCAGC
TGAACGTCTGTCTGTCCCGGATCTACCTTGTCTGCTCACTTTCCCAACAGGTCGTGGCTGGAGTCTTGTG
AGGCATTGCTGTGGCTGAACTTTCAGCCACATCCGGGGCATCTACAATGCCAGCCTCCGGAAGTATTGT
CTCATCACCATCTTCTGTTTGGTTTCGCGCTTGGATTCTACCTGCTACTAAAAGGGCTAGGGGTGGACC
TCCTGTGGACTTTGGAGAAAGCTAAGAGATGGTGTGAGCGGCCAGAATGGGTCCACCTTGACACTACACC
CTTTGCCAGCCTCTTCAAAAACCTGGGAACCTCTTGGGGTGGGGCTGGCCCTCAACTCCAGCATGTAC
CGGAAGAGCTGCAAGGGAGAAGTCAAGTGGTCTCCATCCGCTTCCGCTGATTTGGCTTCTTGTCTTGG
TCCTCCTGACTCTTTGACTCTCTGAAGCCCCATCCAGGTTGAGTTGATCTTCTACATCTTGTCTTT
CTGCAAGAGCGCAACAGTTCCCTTTCATCTGTGAGTCTTATCCATACTGCCTAGCCCGGATCCTGGGA
CAGACACACAAGAAGTCTTTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205458 representing BC013448
 Red=Cloning site Green=Tags(s)

MEEGMNILDHDFGIQSTRYLQVNYQDSQDWFILVSVIADLRNIFYVLPFIWFHLKETVGINLLWVAVVGDW
 FNLVFKWILFGQRPYWWVLDTDYSSNSSVPIIKQFPVTCETGPGSPSGHAMGAAGVYVMVTSTLAIFRG
 KKKPTYGFRCLNVILWLGFWAVQLNVCLSRITYLAAHFPHQVVAGVLSGIAVAETFSHIRGIYNASLRKYC
 LITIFLFGFALGFYLLKGLGVDLLWLEKAKRWCERPEWVHLDTPFASLFKNLGTLLGLGLALNSSMY
 RKSCKGELSKLLPFRFACIVASLVLLHLFDSLKPPSQVELIFYILSFCKSATVFPASVSLIPYCLARILG
 QTHKKS

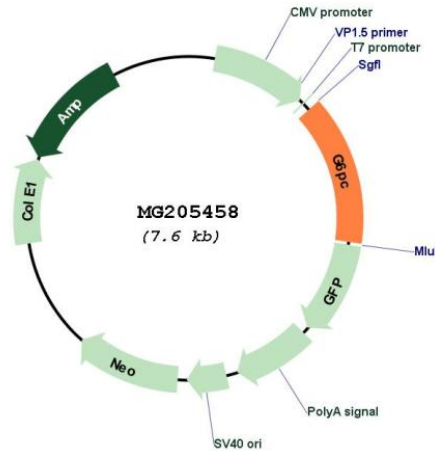
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC013448

ORF Size:	1073 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:	BC013448 , AAH13448
RefSeq Size:	2355 bp
RefSeq ORF:	1073 bp
Locus ID:	14377
Cytogenetics:	11 D
Gene Summary:	The enzyme encoded by this gene is a multisubunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for glucose-6-phosphate, inorganic phosphate, and glucose. This gene is one of three glucose-6-phosphatase catalytic-subunit-encoding genes in mouse. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1). [provided by RefSeq, Sep 2015]