

## Product datasheet for **RG213480**

### PGAM4 (NM\_001029891) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGAM4 (NM_001029891) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGAM4
Synonyms:	dj1000K24.1; PGAM-B; PGAM1; PGAM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213480 representing NM_001029891 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCCGCTACAACTGGTGCTGATCCGGCACGGCGAGAGCACATGGAACCTGGAGAACCGCTTCAGCTGCTGGTACGACGCCGATCTGAGCCCGCGGGCCACGAGGAGGCGAAGCGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCCTCACCTCAGTGCAGAAGAGAGTGATCCGGACCTCTGGACAGTCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCTCAATGAGCGGCACTATGGGGTCTAACCAGTCTCAATAAAGCAGAACTGCTGCAAAGCATGGTGAGGCCAGGTGAAGATCTGGAGGCCCTCCTATGATGTCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGTACCCTCCTATGAGAGTCCGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTAAGTACTGATGACGCCATGGCAACAGCTCCAGGGCATTGCCAAGCATGTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATCCCATCGTCTATGAATTGGACAAGAAGTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGATGAAGAGACGGTGTCAAAGCCATAGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213480 representing NM\_001029891  
Red=Cloning site Green=Tags(s)

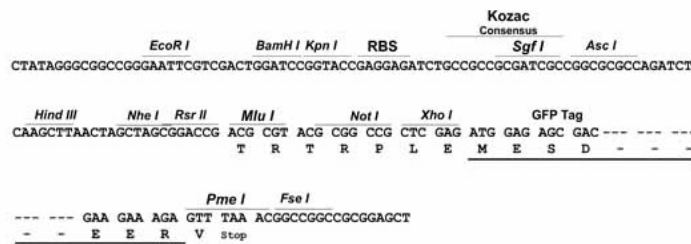
MAAYKLVLIIRHGESTWNLENRFSCWYDADLSPAGHEEAKRGGQALRDAGYFDICLTSVQKRVIRTLWTV  
 LDAIDQMWLPVVRTWRLNERHYGGLTGLNKAETAACHGEAQVKIWRRSYDVPPPPMEPDHPFYSNISKDR  
 RYADLTEDQLPSYESPKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLQGIKHEVGLSEEAIMELNL  
 PTGIPIVYELDKNLKPIKPMQFLGDEETVCKAIEAVAAQKAKK

TRTRPLE - GFP Tag - V

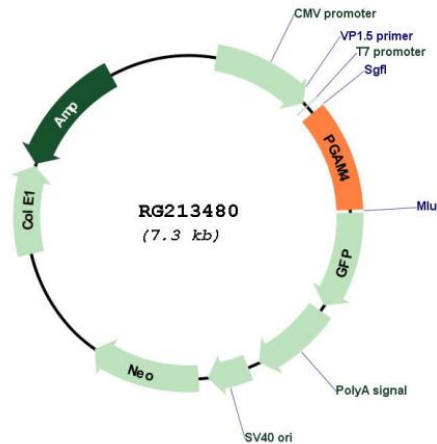
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001029891

**ORF Size:** 762 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:</b>	<a href="#">NM_001029891.3</a>
<b>RefSeq Size:</b>	1678 bp
<b>RefSeq ORF:</b>	765 bp
<b>Locus ID:</b>	441531
<b>UniProt ID:</b>	<a href="#">Q8N0Y7</a>
<b>Cytogenetics:</b>	Xq21.1
<b>Protein Pathways:</b>	Glycolysis / Gluconeogenesis, Metabolic pathways
<b>Gene Summary:</b>	This intronless gene appears to have arisen from a retrotransposition event, yet it is thought to be an expressed, protein-coding gene. The encoded protein is a member of the phosphoglycerate mutase family, a set of enzymes that catalyze the transfer of a phosphate group from 3-phosphoglycerate to 2-phosphoglycerate. [provided by RefSeq, May 2010]