

Product datasheet for **RG215215**

PCK2 (NM_001018073) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCK2 (NM_001018073) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCK2
Synonyms:	PEPCK; PEPCK-M; PEPCK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215215 representing NM_001018073 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGATTGTACCGCCTGGCCTGCGGCTTAAGTGGCATGGGCTGAGCCCCTTGGGCTGGCCATCAT
GCCGTAGCATCCAGACCCTGCGAGTGCTTAGTGGAGATCTGGCCAGCTTCCACTGGCATTGAGATTT
TGTAGAGCACAGTGCCCGCTGTGCAACAGAGGGCATCCACATCTGTGATGGAAGTGGGCTGAGAA
ACTGCCACACTGACCCTGCTGGAGCAGCAGGGCCTCATCCGAAAGCTCCCAAGTACAATAACTGCTGGC
TGGCCCGCACAGACCCCAAGGATGTGGCAGAGTAGAGAGCAAGACGGTATTGTAAGTCTCTCAGCG
GGACACGGTACAACCTCCGCTGGTGGGCCCCGTGGGCAGCTGGGCAACTGGATGTCCCAAGTATTTC
CAGCGAGCTGTGGATGAGAGTTTCCAGGCTGCATGCAGGGCCGACCATGTATGTGCTTCCATTAGCA
TGGGTCTGTGGGCTCCCGCTGTCCCGCATCGGGGTGCAGCTCACTGACTCAGCCTATGTGGTGGCAAG
CATGCGTATTATGACCCGACTGGGGACACCTGTGCTTCAGGCCCTGGGAGATGGTACTTGTCAAGTGT
CTGCACTCCGTGGGCCAGCCCCTGACAGGACAAGGGGAGCAGTGAAGCAGTGGCCGTGCAACCCAGAGA
AAACCCGATTGGCCACGTGCCCGACAGCGGGAGATCATCTCCTTCGGCAGCGGCTATGGTGGCAACTC
CCTGCTGGGCAAGAAGTGCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGGCTGGCA
GAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGCGCTATGTGGCAGCCGCTTCCCTA
GTGCCTGTGGCAAGACCAACCTGGCTATGATGCGGCTGCATGCCAGGCTGGAAGTGGAGTGTGTGGG
GGATGATATTGCTTGGATGAGGTTTGACAGTGAAGGTCGACTCCGGGCCATCAACCTGAGAACGGCTTC
TTTGGGTTGCCCTGGTACCTCTGCCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTA
TTTTTACCAATGTGGCTGAGACCAGTGTGGTGGCGTGTACTGGGAGGGCATTGACCAGCCTCTCCACC
TGGTGTACTGTGACCTCCTGGCTGGGCAAAACCTGGAACCTGGTATGTGCGGTGGGGAAGGTGTGGCA
CAGCCTCAGGCCTCAGCACCTAATGGTGGAAAAGCTTCTCCACAACCTCAACCATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215215 representing NM_001018073
 Red=Cloning site Green=Tags(s)

MAALYRPLRLNWHGLSPLGWPSRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHCIDGTEAEN
 TATLTLLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTPSQRDTVQLPPGGARGQLGNWMSPADF
 QRAVDERFPGCMQGRMTMYVLPFSMGVPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFVVC
 LHSVQPLTGQGEVPSQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLA
 EHMLILGITSPAGKKRYVAAAFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDEGRLRAINPENGF
 FGVAPGTSATTNPAMATIQSNTIFTNVAETSDGGVYWEGIDQPLPPGVTVTSLWGKPKWPGMCGGEGVA
 QPPGLSTLMVEKLSQPPTIF

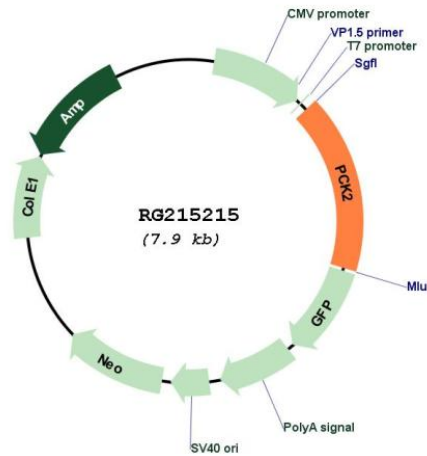
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001018073

ORF Size:	1323 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_001018073.1 , NP_001018083.1
RefSeq Size:	1730 bp
RefSeq ORF:	1326 bp
Locus ID:	5106
UniProt ID:	Q16822
Cytogenetics:	14q11.2-q12
Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism
Gene Summary:	This gene encodes a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of guanosine triphosphate (GTP). A cytosolic form of this protein is encoded by a different gene and is the key enzyme of gluconeogenesis in the liver. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2014]