

Product datasheet for **SC320611**

PCK2 (NM_004563) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCK2 (NM_004563) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCK2
Synonyms:	PEPCK; PEPCK-M; PEPCK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004563.2
 CCGCCTTCATACCTCCCCGGCTCCGCTCGGTTCTGGCCACCCCGCAGCCCCTGCCAG
 GTGCCATGGCCGATTGTACCGCCTGGCTGCGGCTTAAGTGGCATGGGCTGAGCCCCT
 TGGGCTGGCCATCATGCCGTAGCATCCAGACCTGCGAGTGCTTGTGGAGATCTGGGCC
 AGCTTCCCCTGGCATTCCGAGATTTTGTAGAGCACAGTGCCCGCCTGTGCCAACAGAGG
 GCATCCACATCTGTGATGGAAGTGGGCTGAGAATACTGCCACACTGACCCTGCTGGAGC
 AGCAGGGCCTCATCCGAAAGCTCCCCAAGTACAATAACTGCTGGCTGGCCCGCACAGACC
 CCAAGGATGTGGCACGAGTAGAGAGCAAGACGGTGATTGTAACCTCTCAGCGGGACA
 CGGTACCACTCCCGCTGGTGGGCCCCGTGGGAGCTGGGCAACTGGATGTCCCCAGCTG
 ATTTCCAGCGAGCTGTGGATGAGAGTTTCCAGGCTGCATGCAGGGCCGACCATGTATG
 TGCTTCCATTGAGCATGGGTCTGTGGGCTCCCCGCTGTCCCGCATCGGGGTGCAGCTCA
 CTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCGACTGGGGACACCTGTGC
 TTCAGGCCCTGGGAGATGGTGACTTTGTCAAGTGTCTGCACTCCGTGGCCAGCCCCTGA
 CAGGACAAGGGGAGCCAGTGAGCCAGTGGCCGTGCAACCCAGAGAAAACCTGATTGGCC
 ACGTGCCCGACCGGGAGATCATCTCCTTCGGCAGCGGCTATGGTGGCAACTCCCTGC
 TGGGCAAGAAGTCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGGC
 TGGCAGAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGCGCTATGTGG
 CAGCCGCCTTCCCTAGTGCCTGTGGCAAGCAACCTGGCTATGATGCGGCCTGCACTGC
 CAGGCTGGAAAGTGGAGTGTGTGGGGATGATATTGCTTGGATGAGGTTTGACAGTGAAG
 GTGCACTCCGGGCCATCAACCCTGAGAACGGCTTCTTTGGGGTGGCCCTGGTACCTCTG
 CCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTTACCAATGTGG
 CTGAGACCAGTGTGGTGGCGTACTGGGAGGGCATTGACCAGCCTCTCCACCTGGTG
 TTAAGTGTGACCTCTGGCTGGGCAACCCTGAAACCTGGTGACAAGGAGCCCTGTGCAC
 ATCCCAACTCTCGATTTTGTGCCCGGCTCGCCAGTGCCCATCATGGACCCAGCCTGGG
 AGGCCCAAGAGGTGTCCCCATTGACGCCATCATCTTTGGTGGCCGAGACCCAAAGGGG
 TACCCCTGGTATACGAGGCCTTCAACTGGCGTCATGGGGTGTGGTGGGAGCGCCATGC
 GCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAAGATCATATGCACGACCCATTTG
 CCATGCGGCCCTTTTTGGCTACAACCTCGGGCACTACCTGGAACACTGGCTGAGCATGG
 AAGGGCGCAAGGGGGCCAGCTGCCCGTATCTCCATGTCAACTGGTCCGGCGTGACG
 AGGCAGGGCACTTCTGTGGCCAGGCTTTGGGAGAATGCTCGGGTGTAGACTGGATCT
 GCCGGCGGTTAGAGGGGGAGGACAGTGCCCGAGAGACACCCATTGGGCTGGTCCAAAGG
 AAGGAGCCTTGGATCTCAGCGGCCTCAGAGCTATAGACACCACTAGCTGTTCTCCCTCC
 CCAAGGACTTCTGGGAACAGGAGGTTCTGTGACATTGCGAGCTACCTGACAGAGCAGGTCA
 ACCAGGATCTGCCCAAAGAGGTGTTGGCTGAGCTTGGAGCCCTGGAGAGACGTGTGCACA
 AAATGTGACCTGAGGCCCTAGTCTAGCAAGAGGACATAGCACCCTCATCTGGGAATAGGG
 AAGGCACCTTGCAGAAAATATGAGCAATTTGATATTAACATAACATCTTCAATGTGCCATA
 GACCTTCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTTTAAAAAAAAAAAA
 AAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_004563

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_004563.2</u> , <u>NP_004554.2</u>
RefSeq Size:	2221 bp
RefSeq ORF:	1923 bp
Locus ID:	5106
UniProt ID:	<u>Q16822</u>
Cytogenetics:	14q11.2-q12
Domains:	PEPCK
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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>