

Product datasheet for **SC321691**

Pyruvate Kinase (PKLR) (NM_000298) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pyruvate Kinase (PKLR) (NM_000298) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pyruvate Kinase
Synonyms:	PK1; PKL; PKRL; RPK
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_000298.4
 GCAGCCCCAGGCCCACTGAAAGCATGTCGATCCAGGAGAACATATCATCCCTGCAGCT
 TCGGTCATGGGTCTTAAGTCCCAAAGAGACTTAGCAAAGTCCATCCTGATTGGGGCTCC
 AGGAGGGCCAGCGGGGTATCTGCGGGCGGCCAGTGTGGCCCAACTGACCCAGGAGCTGGG
 CACTGCCTTCTCCAGCAGCAGCAGCTGCCAGCTGCTATGGCAGACACCTTCTGGAACA
 CCTCTGCCTACTGGACATTGACTCCGAGCCCGTGGCTGCTCGCAGTACCAGCATCATTGC
 CACCATCGGGCCAGCATCTCGCTCCGTGGAGCGCCTCAAGGAGATGATCAAGGCCGGGAT
 GAACATTGCGCGACTCAACTTCTCCACGCTCCACGAGTACCATGCTGAGTCCATCGC
 CAACGTCCGGGAGCGGTGGAGAGCTTTGCAGGTTCCCCACTCAGCTACCGGCCCGTGGC
 CATCGCCCTGGACACCAAGGGACCGGAGATCCGCACTGGGATCCTGCAGGGGGTCCAGA
 GTCGGAAGTGGAGCTGGTGAAGGGCTCCAGGTGCTGGTACTGTGGACCCCGCTTCCG
 GACGCGGGGAACCGAACACCGTGTGGGTGGACTACCCAATATTGTCCGGTCTGTGCC
 GGTGGGGGGCCGCATCTACATTGACGACGGCTCATCTCCCTAGTGGTCCAGAAAATCGG
 CCCAGAGGGACTGGTGACCAAGTGGAGAACGGCGGCTCCTGGGAGCCGGAAGGGCGT
 GAACTTGCAGGGGCCAGGTGGACTTGCCCGGCTGTCCGAGCAGGACGTCGAGACCT
 GCGCTTCCGGGTGGAGCATGGGGTGGACATCGTCTTTCCTCCTTTGTGCGGAAAGCCAG
 CGACGTGGCTGCCGTGAGGGCTGCTCTGGTCCGGAAGGACACGGCATCAAGATCATCAG
 CAAAATTGAGAACCACGAAGGCGTGAAGAGTTTATGAAATCCTGGAGGTGAGCGACGG
 CATCATGGTGGCAGGGGGGACCTAGGCATCGAGATCCAGCAGAGAAAGTTTCTCCTGGC
 TCAGAAGATGATGATTGGGCGTCAACTTGGCGGGCAAGCCTGTTGTCTGTGCCACACA
 GATGCTGGAGAGCATGATTACCAAGCCCGGCCAACGAGGGCAGAGACAAGCGATGTGCG
 CAATGCTGTGCTGGATGGGGTACTGCATCATGCTGTGAGGGGAGACTGCCAAGGGCAA
 TTTCCCTGTGGAAGCGGTGAAGATGCAGCATGCGATTGCCCGGAGGCAGAGCCCGAGT
 GTACCACCGCAGCTGTTTGAAGAGTACGTCCGGCAGCGCCACTAAGCCGTGATCCAC
 TGAGGTACCCGCATTGGTGTGTGAGGCTGCCTTCAAGTGTGTGCTGCTGCCATCAT
 TGTGCTGACCACAAGTGGCCGCTCAGCCAGCTTCTGTCTCGGTACCGACCTCGGGCAGC
 AGTCATTGCTGTACCCGCTCTGCCAGGCTGCCCGCCAGGTCCACTTATGCCGAGGAGT
 CTTCCCTTGTCTTACCGTGAACCTCCAGAAGCCATCTGGGCAGATGATGTAGATCGCCG
 GGTGCAATTTGGCATTGAAAGTGAAGGCTCCGTGGCTTCTCCGTGTTGGAGACCTGGT
 GATTGTGGTACAGGCTGGCAGCTGGCTCCGGCTACACCAACATCATGAGGGTGTAAAG
 CATATCCTGAGACGCCCCCTCCCCCTCTGCCCCAGCCTACCCTTGTACCCATCCCTTCC
 TCCCCAGTCTACGTTCTCCAGCCACACCCCTCCAAGGCCACCTTTAAGTCTCTCTT
 CTCTATTCTGACCCCTCCCTACCTGAGGCTATCTGAGACTATAACTGTATCTAGCCCC
 TTCGAGGTTGCCCTTCCCCATCTCCATTTACACAGGCTCCTGAAAGTCTGTGTCCAATT
 ATGCACTGGCCACCCAACAGCACCATTGTACATTCTCTGCATCCAATCTGCTCAGCAGG
 CCCTAAGATGCCTTGAGTCTTTAATCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000298

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_000298.4</u> , <u>NP_000289.1</u>
RefSeq Size:	2483 bp
RefSeq ORF:	1725 bp
Locus ID:	5313
UniProt ID:	<u>P30613</u>
Cytogenetics:	1q22
Domains:	PK
Protein Families:	Druggable Genome
Protein Pathways:	Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus
Gene Summary:	<p>The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. Defects in this enzyme, due to gene mutations or genetic variations, are the common cause of chronic hereditary nonspherocytic hemolytic anemia (CNSHA or HNSHA). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Isoform 1 is also known as type R. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>