

Product datasheet for SC324665

CARKL (SHPK) (NM_013276) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARKL (SHPK) (NM_013276) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARKL
Synonyms:	CARKL; SHK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_013276.2
AGAGCGGGACTTGTGGGCGGCTGGCTGCAGACTGGAGCTGCGCGGGTCAGGGAGATAA
TGGCTGCGCGGCGGATCACCTCGGCATTGACCTGGGCACCACATCTGTGAAGGCAGCTC
TGCTGAGGGCCGCGCCGACGACCCATCCGGGTTGCGAGTGCTGGCGAGCTGTGCCCGTG
CTGCGCGGGCAGAGGCGGCGGTGAGAGCGCGGTGGCCGGGCCCCAGGGCGGGAGCAGG
ATGTGAGTAGAATCCTCCAAGCCCTACACGAGTGCCTTGTGCCCTTCCCCGACCCAGC
TCCGGAGCGTCTGGGCATCGGGGTGTCGGGCCAGATGCATGGAGTCGTGTTTTGAAAA
CAGGCCAAGGCTGTGAATGGACAGAGGGAGGGATTACCCCGGTGTTGAGCCCCGAGCTG
TTAGCCACCTGGTCAGTGGCAGGATGGCCGATGTAGCAGCGAATCCTGGCCTCTCTGC
CCCAGCCGAAGTCTCATCTCAGTGTGGCCACGGGCTTCGGCTGTGCAACCATCTTCTGGC
TTTTGAAATATCGCCAGAGTTCCTGAAGTCTACGACGACCCGGTACCATCCAGACT
ATGTGGTTGCCATGCTGTGTGGCTTGCCAAGACCTCTGATGTCCGACCAGAATGTGCCA
GCTGGGGCTATTTCAACACGCAGAGCCAAAGCTGGAACGTAGAGACACTGAGGAGCTCGG
GTTTTCTGTCCACCTGCTCCCAGACATCGCCGAGCCTGGCAGTGTGGCGGGCAGAACTT
CCCACATGTGGTTTTGAAATCCCAAAGGGGACGCAGGTGGGAGTGGCCTTGGGTGATTTAC
AGGCCTCTGTCTATTCTGCATGGCCCAGAGGACAGATGCAGTTCCTCAACATCAGCACCT
CGGTTAGCTGGCAGCCTCCATGCCTTCAGGATTCCAGCCTGCACAGACTCCAGACCCTA
CGGCCCCAGTGCCTACTTCCATACTTCAACAGGACCTACCTGGGGGTGGCCCGTCCAC
TCAACGGGGCAATGTGCTGGCCACGTTTCCATGCATGCTGGTTTCAGTGGATGGCAGATC
TAGGCCTGGAGGTTGAAGAATCCACTGTGTATTACGCATGATTACGGCAGCTGTGCAGC
AGAGAGATACCCACCTGACCATACCCCCGACAGTGTGGGGGAGAGGCACCTGCCGGACC
AGCTGGCCTCAGTGACCAGAATCTCCTCCTCCGACCTCTCCCTGGGGCACGTGACCCGGG
CTCTGTGCCGAGGCATTGTTCAGAACCTGCACTCCATGCTTCCGATTCAGCAGCTCCAGG
AGTGGGGCGTGGAGAGGGTGTGGGCAGTGGGAGTGGCCTGTCCAGGAATGACGTGCTGA
AGCAGGAGGTGCAGAGGGCTTTCCCTTTGCCATGTCCTTTGGGCAGGATGTGGATGCAG
CTGTGGGGCAGCTCTGGTCATGCTCCGGAGACACCTCAACCAGAAGGAATCTTAGACAG
CAAACCTTTCCGCAACGACTGCTGTGAATTTACCTGATTAACATTCTGACACCATC



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TGTGGGTCATCCTTTCCCTGGACCGTTCAGTGGACAGCTTTCAAGCAGTGCTTGTGTGA
 GGTCCCATTCTGGCCAAGAACTTACCTTCAGAACAATACTAATAATGCAGCCAGGAGCC
 GTCAGCCAGATCCCAAATGAGTGCCCTCCGAAATTGACCCACCTGGGAGCTATTTACAAA
 TGTCCATGTGGGAGAGAGAGAGCATGAGAGCACAGTAGCCAGCCTGCTGGTCAGCAGGC
 TCATCTGTGGTTACCTGTAGACAGAGAGCAGATCAATGTGTACTTCAGACACCAGAAAG
 TCTGGTGGCTTTGGTCCCAAGTGGGAAAAGAGAAGTGGCCATGCCAGCTTGTGATTAT
 CGTTTTTGGAGACCTGAAGCCACACTGGGGTGTATGGACTTCTGGAAAAGTTCTTGTC
 TCCTGGACTGAACCATGTGACCGGAGGCCCTTTCCTAGTCTCATCCTCCCTGGCTGCA
 GATGCTTAGCTGGCCAGGGATTGACCCAAGCGGATGCAGCAGGCAGGCTCAGAAGACG
 ATGCGGGGCTGTGTGCCGGCCTTCTTGCTGCATGTACTCAGCCTCAGGAGAGCTTGTGC
 ACCCAGGCCGCCAGGTCTTACAGCACAAGTGCCTGGAAGGCAGGTTGCGAGAAGGAGA
 GCGGATGGCATGAGCAGCAAGGGGACCGATGCTGTGCAGCTCACACCACTCCAGAACC
 TGACAAGGCACCAGCAGGACCCCTTGCAGGAGCATGTCTGTGCAGCAGTGTTCGCCC
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 GGCAGGTAGTTTATTCAAAGAGAAGTCTGTATCCCATAGGCCAGGCTCTCCTTTGCTT
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 GGCATCCCTGTAGGGATCCCAGAGCGTTGTAAGCCTTCTTGTGATTGGTAGGGATGGCTG
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 CCCAGGCTCAGGCAGGCTGGCCAGAGTCACGCTGGCAACCACGAGTTTGGGAAGCAGT
 CGTATTCTCTCTCTCTCTCTCTCTCAGTATCCATGACAGGTATGAAACATATTGTC
 TCTTTATAAATGTCATTTTACAAATTATGTGATTATCTGGAAGCTCTAAGATGAGAGCAA
 ATGCCTGATCACTCTGGCCAAATGTCAGATACTAAAGCCATTCTTGGCCGGGCATGTTG
 GCTCCCGCCTGTAATCCAGCACTTTGGGAAGCCCAAGTGGGTGAATCACCTGAGGTGAG
 GAGTTCAAGACCAGCCTGACCAACATGGGGATACCCCGTCTCTACTAAAAATACAAGCCG
 GCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAAAATCACT
 TGAACCGGGAGGCAGAGGTTGCAGTGAGCTGAGATCGCGCCATTGCACTCCAGCCTGGG
 TGACAGAGCAAGACTCTGTCTATAAATAAATACAAAGCCATTCTTCCAGAGTCTTGTG
 CCTTAAATAAAACACACCTCTCTGCTGTGGGAAGACTGTGCAATGGCACAGCCGAGAGC
 TTGTTTTGGGAGGTTGAAATGCTCTGGGAGAATTCGTAGATCATCCTCAGAAAAGCCTT
 GCCCTGGTGTCTACCAGAAAAAGTCTCCAATCAGGAAAGCTGTCCACAGTAGT
 CCCCCCTATCCAGGTGTCACCTTCCATGGGTTGAGTTATCTGCGGTCAACCACGGTCT
 GACAATATTAATGGAATTTCTCAAACAGTTAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_013276
- 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_013276.2</u> , <u>NP_037408.2</u>
RefSeq Size:	3838 bp
RefSeq ORF:	1437 bp
Locus ID:	23729
UniProt ID:	<u>Q9UHI6</u>
Cytogenetics:	17p13.2
Domains:	FGGY
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene has weak homology to several carbohydrate kinases, a class of proteins involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane. Sequence variation between this novel gene and known carbohydrate kinases suggests the possibility of a different substrate, cofactor or changes in kinetic properties distinguishing it from other carbohydrate kinases. The gene resides in a region commonly deleted in cystinosis patients, suggesting a role as a modifier for the cystinosis phenotype. The genomic region is also rich in Alu repetitive sequences, frequently involved in chromosomal rearrangements. [provided by RefSeq, Jul 2008]</p>