

## Product datasheet for **SC111213**

### **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:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC111213 sequence for NM\_013276 edited (data generated by NextGen Sequencing)

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ATGGCTGCGCGGCCGATCACCTCGGCATTGACCTGGGCACCACATCTGTGAAGGCAGCT
CTGCTGAGGGCCGCGCCGACGACCCATCCGGGTTGCGAGTGTGGCGAGCTGTGCCCGT
GCTGCGCGGGCAGAGGCGCGGTGAGAGCGCGGTGGCCGGGCCCCAGGGCGGGAGCAG
GATGTGAGTAGAATCCTCCAAGCCCTACACGAGTGCCTTGCTGCCCTTCCCCGACCCAG
CTCCGGAGCGTGTGGGCATCAGGGTGTGGGCCAGATGCATGGAGTCGTGTTTTGGAAA
ACAGGCCAAGGCTGTGAATGGACAGAGGGAGGGATTACCCCGGTGTTGAGCCCGAGCT
GTTAGCCACCTGGTCACGTGGCAGGATGGCCGATGTAGCAGCAATTCTGGCCTCTCTG
CCCCAGCCGAAGTCTCATCTCAGTGTGGCCACGGGCTTCGGCTGTGCAACCATCTTCTGG
CTTTTGAATATCGCCAGAGTTCCTGAAGTCTACGACGCAGCCGGTACCATCCACGAC
TATGTGGTTGCCATGCTGTGTGGCTTGCCAAGACCTCTGATGTCCGACCAGAATGCTGCC
AGCTGGGGCTATTTCAACACGCAGAGCCAAAGCTGGAACGTAGAGACTGAGGAGCTCG
GGTTTTCTGTCCACCTGCTCCAGACATCGCCGAGCCTGGCAGTGTGGCGGCAGAACT
TCCCACATGTGGTTTGAATCCCAAAGGGGACGCAGGTGGGAGTGGCCTTGGGTGATTTA
CAGGCCTCTGTCTATTCTGCATGGCCAGAGGACAGATGCAGTCTCAACATCAGCACC
TCGGTTCAGTGGCAGCCTCCATGCCTTCAGGATTCCAGCCTGCACAGACTCCAGACCCT
ACGGCCCCAGTCGCTACTTCCCATACTTCAACAGGACCTACCTGGGGTGGCCGCTCA
CTCAACGGGGGAATGTGCTGGCCACGTTTCGTCCACATGCTGGTTCAGTGGATGGCAGAT
CTAGGCCTGGAGGTTGAAGAATCCACTGTGATTCACGCATGATTCAGGCAGCTGTGCAG
CAGAGAGATACCCACCTGACCATACCCCGACAGTGTGGGGGAGAGGCACCTGCCGGAC
CAGCTGGCCTCAGTGACCAGAATCTCCTCCTCCGACCTCTCCCTGGGGCAGTGACCCGG
GCTCTGTGCCGAGGCATTGTTTCAAGAACCTGCACCTCCATGCTTCCGATTCCAGCAGTCCAG
GAGTGGGGCGCTGGAGAGGGTGTGGGAGTGGGAGTGGCCTGTCCAGGAATGACGTGCTG
AAGCAGGAGGTGCAGAGGGCTTTCCCTTTGCCCATGTCTTTGGGCAGGATGTGGATGCA
GCTGTGGGGCAGCTCTGGTCATGCTCCGGAGACACCTCAACCAGAAGGAATCTTAG

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Clone variation with respect to NM\_013276.2  
262 g=>a

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_013276 unedited

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CCAATTACCCCGCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGCC
GCGAATTCGGCACGAGGGTCAAGGAGATAATGGCTGCGCGGCCGATCACCTCGGCATTG
ACCTGGGCACCACATCTGTGAAGGCAGCTCTGCTGAGGGCCGCGCCGACGCCATCCG
GGTTCGCAGTGCTGGCGAGCTGTGCCGTGCTGCGCGGGCAGAGGCGCGGTGAGAGCG
CGGTGGCCGGGCCCCAGGGGCGGGAGCAGGATGTGAGTAGAATCCTCCAAGCCCTACAC
AGTGCCTTGTGCCCTTCCCCGACCCAGCTCCGGAGCGTGTGGGCATCAGGGTGTCCG
GCCAGATGCATGGAGTCGTGTTTTGAAAAACAGGCCAAGGCTGTGAATGGACAGAGGGAG
GGATTACCCCGGTGTTGAGCCCGAGCTGTTAGCCACCTGGTCACGTGGCAGGATGGCC
GATGTAGCAGCGAATTCCTGGCCTCTCTGCCCCAGCCGAAGTCTCATCTCAGTGTGGCCA
CGGGCTTCGGCTGTGCAACCATCTTCTGGCTTTTGAATATCGCCAGAGTTCCTGAAGT
CCTACGACGCAGCCGGTACCATCCAGACTATGTGGTTGCCATGCTGTGTGGCTTGCCAA
GACCTCTGATGTCCGACCAGAATGCTGCCAGCTGGNGCTATTTAACACGCAGAGCCTAAG
CTGTACGTAGAACACTGAGAGCCTCCGGGTTTTCTGTCCCTGCTCCAGACTCGCAGCC
CTGCAGGGGTGGCGGCAGACTTCTAGGGGTTTTGATCCAGGGACCGCCNNNNNGAGGC
CCTTTGGGGGATTACGGCCTCTGCATTCTGCTGCCAG

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**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_013276  
**Insert Size:** 2750 bp

<b>OTI Disclaimer:</b>	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).
<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_013276.1</a> , <a href="#">NP_037408.1</a>
<b>RefSeq Size:</b>	3838 bp
<b>RefSeq ORF:</b>	1437 bp
<b>Locus ID:</b>	23729
<b>UniProt ID:</b>	<a href="#">Q9UHI6</a>
<b>Cytogenetics:</b>	17p13.2
<b>Domains:</b>	FGGY
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]