

## Product datasheet for **SC127404**

### CERK (NM\_022766) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CERK (NM_022766) Human Untagged Clone
Tag:	Tag Free
Symbol:	CERK
Synonyms:	dA59H18.2; dA59H18.3; hCERK; LK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC127404 representing NM\_022766.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGCGCAGCGGGGCGGGGAGCCGCTGCAATCCGTGCTGTGGGTGAAGCAGCAGCGCTGCGCCGTG
AGCCTGGAGCCCAGCGGGGCTCTGCTGCGCTGGTGGCGGAGCCCGGGCCCGGAGCCGGCGCCCGCGC
GCGGATGCTGCTGTGCCTGTATCTGAGATCATCGCCGTTGAGGAAACAGACGTTACCGGAAACAT
CAAGGCAGTGGAAAATGGCAGAAAATGGAAAAGCCTTACGCTTTTACAGTTCAGTGTGTAAGAGAGCA
CGACGGCACCGCTGGAAGTGGGCGCAGGTGACTTTCTGGTGTCCAGAGGAGCAGCTGTGTCACTTGTGG
CTGCGAGCCCTGCGGGAGATGCTGGAGAAGCTGACGTCCAGACCAAGCATTACTGGTATTTATCAAC
CCGTTTGGAGGAAAAGGACAAGCAAGCGGATATATGAAAGAAAAGTGGCACCCTGTTACCTTAGCC
TCCATCACCCTGACATCATCGTTACTGAACATGCTAATCAGGCCAAGGAGACTCTGTATGAGATTAAC
ATAGACAAATACGACGGCATCGTCTGTGTCGGCGGAGATGGTATGTTACGCGAGGTGCTGCACGGCTG
ATTGGGAGGACGCAGAGGAGCGCCGGGTCGACCAGAACCACCCCGGGCTGTGCTGGTCCCGAGTACG
CTCCGGATTGGAATCATTCCCGCAGGGTCAACGACTGCGTGTGTTACTCCACCGTGGGCACCAGCGAC
GCAGAAAACCTCGGCGCTGCATATCGTTGTTGGGACTCGCTGGCCATGGATGTGTCTCAGTCCACCAC
AACAGCACACTCCTTCGCTACTCCGTGTCCCTGCTGGGCTACGGCTTCTACGGGACATCATCAAGGAC
AGTGAGAAGAAAACGGTGGTTGGGCTTGGCCAGATACGACTTTTCAAGTTTAAAGACCTTCTCTCCAC
CACTGCTATGAAGGGACAGTGTCTTCCCTCCCTGCACAACACACGGTGGGATCTCCAAGGGATAGGAAG
CCCTGCCGGGCAGGATGCTTTGTTTGCAGGCAAGCAAGCAGCAGCTGGAGGAGGAGCAGAAGAAAAGCA
CTGTATGGTTTGAAGCTGCGGAGGACGTGGAGGAGTGGCAAGTCGTCTGTGGAAAGTTTCTGGCCATC
AATGCCACAACATGTCCTGTGCTTGTGCGCCGAGCCCGGGGCTCTCCCGGCTGCCACTTGGGA
GACGGGTCTTCTGACCTCATCCTCATCCGAAAATGCTCCAGTTCAATTTTCTGAGATTTCTCATCAGG
CACACCAACCAGCAGGACCAGTTTGACTTCACTTTTGTGAAAGTTTATCGCGTCAAGAAATTCAGTTT
ACGTGCAAGCACATGGAGGATGAGGACAGCGACCTCAAGGAGGGGGGAAGAAGCGCTTTGGGCACATT
TGCAGCAGCCACCCCTCTGCTGCTGCACCGTCTCCAACAGCTCCTGGAAGTGCAGCGGGGAGGTCTG
CACAGCCCTGCCATCGAGGTCAGAGTCCACTGCCAGCTGGTTCGACTCTTTCACAGGAATTGAAGAG
AATCCGAAGCCAGACTCACACAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Chromatograms: [https://cdn.origene.com/chromatograms/ja2626\\_c06.zip](https://cdn.origene.com/chromatograms/ja2626_c06.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_022766

Insert Size: 1614 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_022766.4</a>
<b>RefSeq Size:</b>	4445 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	64781
<b>UniProt ID:</b>	<a href="#">Q8TCT0</a>
<b>Cytogenetics:</b>	22q13.31
<b>Domains:</b>	DAGKc
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Sphingolipid metabolism
<b>MW:</b>	60 kDa
<b>Gene Summary:</b>	CERK converts ceramide to ceramide 1-phosphate (C1P), a sphingolipid metabolite. Both CERK and C1P have been implicated in various cellular processes, including proliferation, apoptosis, phagocytosis, and inflammation (Kim et al., 2006 [PubMed 16488390]).[supplied by OMIM, Mar 2008]