

Product datasheet for **SC126978**

CERK (NM_182661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERK (NM_182661) Human Untagged Clone
Tag:	Tag Free
Symbol:	CERK
Synonyms:	ceramide kinase; dA59H18.2; dA59H18.3; DKFZp434E0211; FLJ21430; FLJ23239; hCERK; KIAA1646; lipid kinase LK4; LK4; LK4, hCERK, FLJ21430, FLJ23239, KIAA1646, MGC131878, dA59H18.2, dA59H18.3, DKFZp434E0211; MGC131878; OTTHUMP00000028554
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182661, the custom clone sequence may differ by one or more nucleotides

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ATGCAACGTGGCCCTGCTTCAGGTGATCCGCGGGAGGGGCCTCCACGCCAGCGCCGGGAAGGCTGCTGGG
GCCTCCACACCTGCCTCATCACGGCGGCGAGGCTACGACAATCCGGCTGGGAGCATGACCTTGGCGTCTG
TTCTGGGAGCACGGATGATAAGCTCTGGAAGCTGGCAGTGTGTAAGCACTGGCAAGTTTGTACTGTTA
AAATGTCAAATACCAATGCTTTATATCGACGCGAAGTGCTTAACACAGCCGGGCTTGGGGCAGTCAGGA
GGAAGCTGGCCATCCGTGGAGGAGGGCCGGTCTGGACTCCCGCAGGACTCCTCTGAGGCAGGGCCTGA
AGTCTGTACACGTGGTCCAGATTTGTCCTTGTCTTTTCTCACACTGAGTTCTCTATATTTATTGAACAT
CTTGTCTTTTAAGCCAGAGTAGTGAAACTGCGTCTCGGATGTCTGTCTTTTGCCTCGAAGCCACGATG
GATCGCTGGTTTCTCTGCAGCGCGAGGGCTCCGGCGACCAGAGGATTCTCCCGGAAGGCATTCTGCC
GCGCTCCCGGGGCACCCCTCAATTGTGTACTACGTCCTGTTTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_182661 unedited</p> <p>ATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCCTGGAAGTGCACGGGGAGG TCCTGCACAGCCCTGCCATCGAGGTCAGAGTCCACTGCCAGCTGGTTTCGACTCTTTGCAC GAGGAATTGAAGAGAATCCGAAGCCAGACTCACACAGCTGAGAAGCCGGCGTCTCTGCTCA CAAACTGGGAAAGTGTGAAAATATTTAAGATAATTATTACAGACCAATTATGTTGATAT ATACATTTAAATGTAGAAATTTATTTTGTAGTAAATCTTGATTTTAGAAGAAAACCC TTTTGTCAACAATTTTGTGTACATATTTTGCATTTTCAGTCTGTACGCATCTGCGGGTT GCAGCCACGCCCTTACTCTCAGCGGATGCAGCTGCTCACTTGGGGGCACTGGCCTCTT AGGTTTTAACGATGTCAACAGTGTAGTTTAAAAATGGCCGTTAGTGGCTCTATTGCAA TAATGTTAGGGACATTATGATTTCCACGCAGGTACACCATCTGGGCCTGAGGTAGCA GTGGGTCACTTTGATCCACTTTGCAGGACTTATTCTGTAACGGTTTGTGGCCAAGTTTTG GGAAGTGGTTGATTCTCTTTGCCTTCATTTACCTTCCTCTTCGTTTACGGTTAGGACAT NCGCTGCTTGATCCTTACAATACTGTGCAACTGCAATGCACGTGGCCCTGCTTCAGGTGA ATCGGGGAGGGGCTCCGCCACGCCGNAGGCTGCTGGGGCCTNCACACTGCCTATCA CGGGGCGAGGCTCGACATNCGCTGGAGTACCTGGGGTCTGTTCTGAGCACGAGATACT CTGAACTGGGCATGGTAAGCTGGCAAGTTGTCTGTTTAAATGTAATACATGCTAATNNAC CCAGGTAACACGGCTTTGGGCATAGAAGATGCTTCTTGGGGGGGGGGGGCCTGTCT CCAACCCTTAGGGGGGAGTTTACGGGGCAAATTTTGTCTCTAACGTTTTTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_182661 unedited</p> <p>GATTACTTTTTTCGTGGTCTTTCTCAAACATTTNCANANCAAATAATGCCATTTTCTAA TCTTGAACCAGCAAGATTAGAAAGAGAATGAGGCCATCCTTTCAGTCTTTCCAG TTAAGTATGTTATTCAGGAACGAAGTCAAACCTCGGCCTCACTTCTTAATTAGAATAA ACTAGAATCAGGTCCATTGCATAACTGCTAATTGTTTTGCACCAGGGAGCCACAAAGGAA GCTAAAACCTAGCCTTTCTAAGTTATCCTAAGTTTTACTATCTAACAGCACTTCTGATT TTTTTTCCCTTAAAACCTCAAAGTACAGGTGTTGTATGTCTGCCCATCTGAAAGGCTGC CCCGAAATCAGAGCCTATCTAGCGGAATGTCTGGGCAGTACCCCCATCCTGCGCGCA GATAGCAAAGGGCTGCTGGCAGGTGTCAGACACACGGTACCGCAACAGCAGTCCCGAGGT CTGAGATTCTGAATGTCAGCAGGTGGCTGGAGAGTATCACCAGAGCCACTCAGGAACCAG CCATGCGGAATGGCTGGGTTTCTATTGAACATGAAATGCTTCTCTTTGGCCTGGACTG TTTTGCTAAAATTGTTAGTGGGTTTTGGGGCAGGCCAGTGTATGGGAACTTTTTTTTTT GTTGGGGGGGGCGATGGAGTCTCCCTCTGTTGCCAGGCCTGGAGTGCAGTGGCGCAA TCTTGGCTCACCGCAACCTCCACCTCTTCTTGGNGTCAAGCGATTCTCCTGCCTCAGCA TNCTAGTAGCTGAGAATACAGGGCGTGCGCCAACAGACTGGGCTAAGNTNGTGTATTT TTAGTAGAGGACGAGGTTTACCATGTTTGGGCAAGCTGATCTCAACTCCTGACCTTTAG TGATCCACCGCTCGGCTTCCAAGTGTGGGATNACAGGCGTGAGCACCGGCCAGCGGGA ACATTACAGGGACATAGCCTANAGAACTTTGGGAACCTTGGAGGACCAATCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_182661
Insert Size:	2850 bp
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).
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:

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: [NM_182661.1](#), [NP_872602.1](#)

RefSeq Size: 3040 bp

RefSeq ORF: 606 bp

Locus ID: 64781

Cytogenetics: 22q13.31

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: 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]