

## Product datasheet for SC302512

### CERKL (NM\_001030312) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CERKL (NM_001030312) Human Untagged Clone
Tag:	Tag Free
Symbol:	CERKL
Synonyms:	RP26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302512 representing NM_001030312. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCTGGAGGAGGCGCAGGAACCGGGTGAAGTCCCTGGAGGGCGCCGGGAGGAAGAGGCGCCCCG
GAGGCTGCCGCTGTGCCTCCGGCGCTGTTAACGTCGCCGAGCAGACGGAGGCGCCGCGAGCGGATT
CTGCTCCGGGGCATCTTCGAGATCGGGAGGGACAGTTGTGACGTGGTGTGAGCGAGCGAGCACTGCGG
TGGCGGCCATTAGCCGAGCGCCCGGGGTGATTCTAAGTATGACTTGCTATGTAAGAAGAATTT
ATTGAACTCAAAGACATATTCTCTGTGAACTGAAACGGCGTTGTTCTGTTAAACAGCAGAGAAGTGGT
ACTTTATTAGGTATCACACTTTCATCTGCTTAAAAAGGAACAAAATAAACTAAAGAATTCTACACTT
GATCTTATTAATTAAGTGAAGACCACTGTGACATATGGTTTAGACAGTTCAAGAAAATATTGGCAGGA
TCTACCAATGATTGGCACATTCTTTCATGGAGTTCTCATGTGATAACTGCAACATTGCACATTATA
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TCAGCCATGTTTGGCTTTGGTGGAAAGAACTTTGGCTCTGGCAGAAAAATATCGATGGATGTCCCCTAAC
CAACGGAGAGATTTTGTGTTGTTAAGGCACTGGCAAACTTAAGGCAGAAGACTGTGAAATATCATT
TTACCATTTAACAGCTCTGATGATGTGCAAGAAAGGAGGGCACAGGGATCTCCAAATCTGACTGTAAT
GATCAATGGCAAATGATCCAGGGTCAGTTCTTGAATGTCAGCATTATGGCAATTCCTTGCCTGTGTTCA
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AACACTTCTCGGCCAGAATTTATAAAACACCTGAAAAGATATGCCAGTGTAAAAATCAGTTCAATTTT
CCATTTGTTGAGACTTACACTGTTGAGGAAGTAAAAGTTCATCCAAGGAATAATACTGGTGGATATAAT
CCAGAGGAGGAGGAGGATGAACTGCTTCAGAAAATTGTTCCCTTGGAAATGTAGATGGTACTTAATG
GAAGTTGCATCAGAGGTCCATATTAGATTGCATCCAAGACTTATCAGTCTTTATGGAGGAAGCATGGAA
GAAATGATTCAAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001030312
<b>Insert Size:</b>	1260 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>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_001030312.2</a></u>
<b>RefSeq Size:</b>	2887 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	375298
<b>UniProt ID:</b>	<u><a href="#">Q49MI3</a></u>
<b>Cytogenetics:</b>	2q31.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	47.4 kDa

**Gene Summary:**

This gene was initially identified as a locus (RP26) associated with an autosomal recessive form of retinitis pigmentosa (arRP) disease. This gene encodes a protein with ceramide kinase-like domains, however, the protein does not phosphorylate ceramide and its target substrate is currently unknown. This protein may be a negative regulator of apoptosis in photoreceptor cells. Mutations in this gene cause a form of retinitis pigmentosa characterized by autosomal recessive cone and rod dystrophy (arCRD). Alternative splicing of this gene results in multiple transcript variants encoding different isoforms and non-coding transcripts. [provided by RefSeq, May 2010]

Transcript Variant: This variant (3) lacks four alternate in-frame exons in the central coding region, compared to variant 2. The resulting isoform (3) lacks an internal segment, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.