

Product datasheet for **RC223592**

CERKL (NM_201548) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CERKL (NM_201548) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CERKL |
| Synonyms: | RP26 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC223592 representing NM_201548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCTGGAGGAGCGCAGGAACCGGGTGAAGTGCCTGGAGGGCGGCCGGAGGAAGAGGCCCCCGG
 AGGCTGCCGCTGTGCCTCCGGCGCTGTTAACGTCCCCGACAGACGAGGCGGCCGGCCAGCGGATTCT
 GCTCCGGGGCATCTTCGAGATCGGGAGGACAGTTGTGACGTGGTGTGAGCGAGCGAGCACTGCGGTGG
 CGGCCATTACGCCGAGCGCCCGCGGGTATTCTAAGTATGACTTGCTATGTAAGAAGAATTTATTG
 AACTCAAAGACATATTCTCTGTGAACTGAAACGGCGTTGTTCTGTTAAACAGCAGAGAAGTGGTACTTT
 ATTAGGTATCACACTTTCATCTGCTTGAAAAAGGAACAAAATAAACTAAAGAATTTACACTTGATCTT
 ATTAATTTAAGTGAAGACCACTGTGACATATGGTTTAGACAGTTCAAGAAAATATTGGCAGGCTTCCAA
 ACAGACCGAAGTCATTAATAACTCCTTAACCCCAAAGTCAAAAAAGAAGCTACCCAGGTTTATTA
 TGAGAAGTTGAACCTCTGTTGAAGCTTGCAAGGAATAAACTGATGTAACAATAATGGAATATGAAGGG
 CAGCTCTGCTACTGCTTAAGGAATGTGAACCTCCAGGGATTTGATGGTGTGTCTGTGTTGGTGGAGATG
 GATCTGTAGCGAAGTAGCCCATGCTTTGCTTCTGAGAGCTCAGAAGAATGCTGGGATGGAACAGACCG
 AATCCTGACTCCTGTGAGCAGCAGCTTCCACTTGGCTTAATACCAGCAGGATCTACCAATGATTGGCA
 CATTCTCTTATGGAGTTCCTCATGTGATAACTGCAACATTGCACATTATAATGGGGCATGTACAGCTGG
 TCGACGCTGCACCTTACGACCCGCTGGCAAGCTTCTTCGCTTTGGGTTCTCAGCCATGTTTGGCTTTGG
 TGAAGAACTTTGGCTCTGGCAGAAAAATCGATGGATGTCCCTAACCAACGGAGAGATTTTGTCTGT
 GTTAAGGCACTGGCAAACTTAAGGCAGAAGACTGTGAAATATCATTTTTACCATTTAACAGCTCTGATG
 ATGTGCAAGAAGGAGGGCACAGGGATCTCCCAAATCTGACTGTAATGATCAATGGCAAAATGATCCAGGG
 TCAGTTCTTGAATGTGACATTATGGCAATTCTTGCCTGTGTTCAAGTGGCACCTAGAGGCTTGGCACCT
 AATACCAGATTAATAATGGAAGTATGGCTCTTATAATTGCCGAAACACTTCTCGGCCAGAATTTATAA
 AACACCTGAAAAGATATGCCAGTGTAAAAATCAGTTCAATTTTCCATTTGTTGAGACTTACACTGTTGA
 GGAAGTAAAAGTTCATCCAAGGAATAACTGGTGGATATAATCCAGAGGAGGAGGAGGATGAAACTGCT
 TCAGAAAATTGTTCCCTTGAATGTAGATGGTATTTAATGGAAGTGCATCAGAGGTCCATATTAGAT
 TGCATCCAAGACTTATCAGTCTTATGGAGGAAGCATGGAAGAAATGATTCCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223592 representing NM_201548
 Red=Cloning site Green=Tags(s)

MPWRRRRNRVSALEGGREEEAPPEAAVPPALLTSPQQTEAAAERILLRIGIFEIGRDSCDVVLSERALRW
 RPIQPERPAGDSKYDLLCKEEFIELKDIFSVKLRRCRSVKQQRSGTLLGITLFIKCKEQLKLNSTLDDL
 INLSEHCDIWFQFKKILAGFPNRPKSLKILLNPQSHKKEATQVYYEKVEPLLKLAGIKTDVTIMEYEG
 HALSLLKECELQGFQVVCVGGDGSASEVAHALLLRAQKNAGMETDRILTPVRAQLPLGLIPAGSTNVLA
 HSLHGVPHVITATLHIIMGHVQLVDVCTFSTAGKLLRFGFSAMFGGRTLALAEKYRWMSPNQRRDFAV
 VKALAKLKAEDCEISFLPFNSDDVQERRAQSPKSDCNDQWQMIQGFQFLNVSIMAIPLCSVAPRGLAP
 NTRLNNGSMALIIARNTSRPEFIKHLKRYASVKNQFNPFVETVYVEEVKVHPRNNTGGYNPEEEEDETA
 SENCFPWNVDGDLMEVASEVHIRLHPRLISLYGGSMEEMIPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4133_c04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_201548

ORF Size: 1596 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_201548.3](#), [NP_963842.1](#)

RefSeq Size: 3123 bp

RefSeq ORF: 1599 bp

Locus ID: 375298

UniProt ID: [Q49MI3](#)

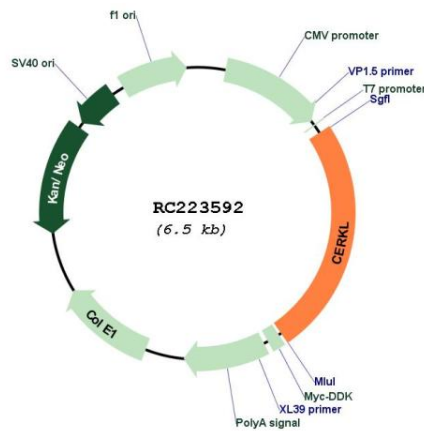
Cytogenetics: 2q31.3

Protein Families: Druggable Genome

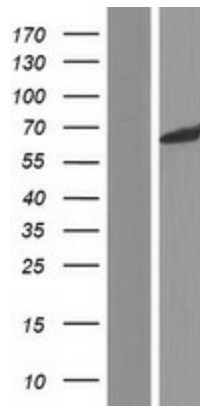
MW: 59.4 kDa

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]

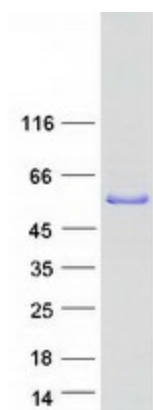
Product images:



Circular map for RC223592



Western blot validation of overexpression lysate (Cat# [LY404454]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CERKL protein (Cat# [TP323592]). The protein was produced from HEK293T cells transfected with CERKL cDNA clone (Cat# RC223592) using MegaTran 2.0 (Cat# [TT210002]).