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Product datasheet for RC217824

CERKL (NM_001030312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERKL (NM_001030312) 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)

ORF Nucleotide Sequence:

>RC217824 representing NM_001030312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTGGAGGAGGCGCAGGAACCGGGTGAGTGCCCTGGAGGGCGGCCGGGAGGAAGAGGCGCCCCCGG
AGGCTGCCGCTGTGCCTCCGGCGCTGTTAACGTCCCCGCAGCAGACGGAGGCGGCGGCCGAGCGGATTCT
GCTCCGGGGCATCTTCGAGATCGGGAGGGACAGTTGTGACGTGGTGCTGAGCGAGCGAGCACTGCGGTGG
CGGCCCATTCAGCCCGAGCGCCCGGCGGGTGATTCTAAGTATGACTTGCTATGTAAAGAAGAATTTATTG
AACTCAAAGACATATTCTCTGTGAAACTGAAACGGCGTTGTTCTGTTAAACAGCAGAGAAGTGGTACTTT
ATTAGGTATCACACTCTTCATCTGCTTGAAAAAGGAACAAAATAAACTAAAGAATTCTACACTTGATCTT
ATTAATTTAAGTGAAGACCACTGTGACATATGGTTTAGACAGTTCAAGAAAATATTGGCAGGATCTACCA
ATGTATTGGCACATTCTCTTCATGGAGTTCCTCATGTGATAACTGCAACATTGCACATTATAATGGGGCA
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ATTTTGCTGTTGTTAAGGCACTGGCAAAACTTAAGGCAGAAGACTGTGAAATATCATTTTTACCATTTAA
CAGCTCTGATGATGTGCAAGAAAGGAGGGCACAGGGATCTCCCAAATCTGACTGTAATGATCAATGGCAA
ATGATCCAGGGTCAGTTCTTGAATGTCAGCATTATGGCAATTCCTTGCCTGTGTTCAGTGGCACCTAGAG
GCTTGGCACCTAATACCAGATTAAATAATGGAAGTATGGCTCTTATAATTGCCCGAAACACTTCTCGGCC
AGAATTTATAAAACACCTGAAAAGATATGCCAGTGTAAAAAATCAGTTCAATTTTCCATTTGTTGAGACT
TACACTGTTGAGGAAGTAAAAGTTCATCCAAGGAATAATACTGGTGGATATAATCCAGAGGAGGAGGAGG
ATGAAACTGCTTCAGAAAATTGTTTCCCTTGGAATGTAGATGGTGACTTAATGGAAGTTGCATCAGAGGT
CCATATTAGATTGCATCCAAGACTTATCAGTCTTTATGGAGGAAGCATGGAAGAAATGATTCCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217824 representing NM_001030312
Red=Cloning site Green=Tags(s)

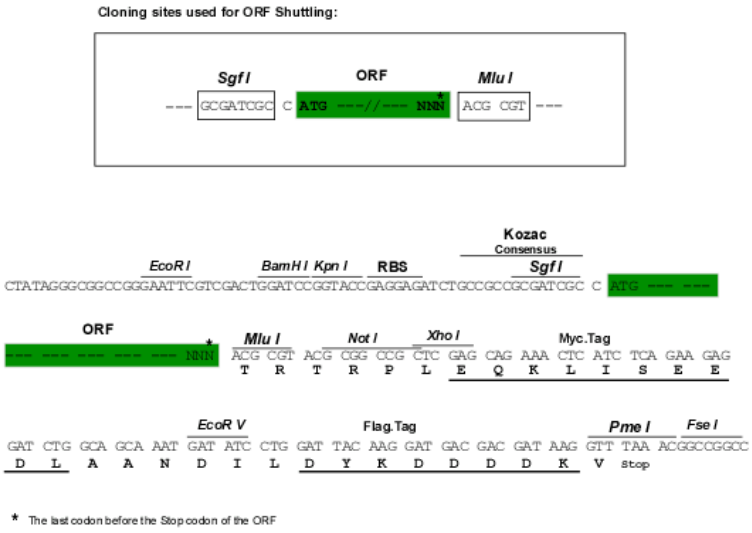
MPWRRRRNRVSALEGGREEEAPPEAAAVPPALLTSPQQTEAAAERILLRGIFEIGRDSCDVVLSERALRW
RPIQPERPAGDSKYDLLCKEEFIELKDIFSVKLKRRCSVKQQRSGTLLGITLFICLKKEQNKLKNSTLDL
INLSEDHCDIWFRQFKKILAGSTNVLAHSLHGVPHVITATLHIIMGHVQLVDVCTFSTAGKLLRFGFSAM
FGFGGRTLALAEKYRWMSPNQRRDFAVVKALAKLKAEDCEISFLPFNSSDDVQERRAQGSPKSDCNDQWQ
MIQGQFLNVSIMAIPCLCSVAPRGLAPNTRLNNGSMALIIARNTSRPEFIKHLKRYASVKNQFNFPFVET
YTVEEVKVHPRNNTGGYNPEEEEDETASENCFPWNVDGDLMEVASEVHIRLHPRLISLYGGSMEEMIPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8058_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001030312

ORF Size: 1257 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_001030312.2, NP_001025483.1

RefSeq Size: 1260 bp

RefSeq ORF: 1260 bp

Locus ID: 375298

UniProt ID: Q49MI3

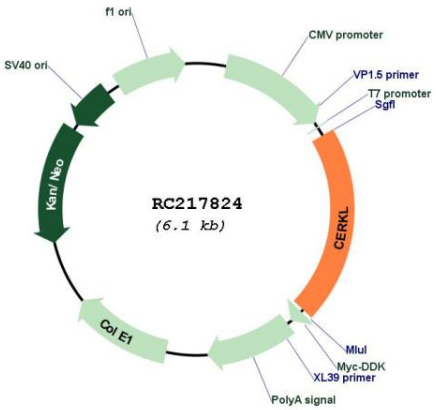
Cytogenetics: 2q31.3

Protein Families: Druggable Genome

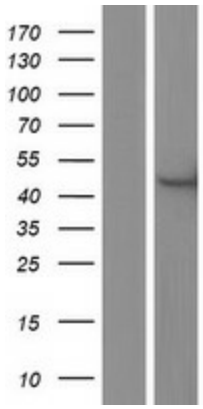
MW: 47.2 kDa

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 RC217824



Western blot validation of overexpression lysate (Cat# [LY422210]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217824 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).