

Product datasheet for **RG228421**

CERKL (NM_001160277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERKL (NM_001160277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CERKL
Synonyms:	RP26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG228421 representing NM_001160277
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGGAGGAGGCGCAGGAACCGGGTGAAGTGCCTGGAGGGCGGCCGGGAGGAAGAGGCCGCCCCCGG
 AGGCTGCCGCTGTGCCTCCGGCGCTGTTAACGTCCCCGCAGCAGACGAGGCGGCCGGCCGAGCGGATTCT
 GCTCCGGGGCATCTTCGAGATCGGGAGGGACAGTTGTGACGTGGTGTGAGCGAGCGAGCACTGCGGTGG
 CGGCCATTACGCCGAGCGCCCGCGGGTATTCTAAGTATGACTTGCTATGTAAGAAGAATTTATTG
 AACTCAAAGACATATTCTCTGTGAACTGAAACGGCGTTGTTCTGTTAAACAGCAGAGAAGTGGTACTTT
 ATTAGGTATCACACTTTCATCTGCTTGAAAAAGGAACAAAATAAACTAAAGAATTTACACTTGATCTT
 ATTAATTTAAGTGAAGACCACTGTGACATATGTTTTAGACAGTTCAAGAAAATTTGGCAGTAATGGAAT
 ATGAAGGGCAGCTCTGTCACTGCTTAAGGAATGTGAACCCAGGGATTTGATGGTGGGCATCGGAAACC
 ATTTGTTCCGAATACATTGGAGTGTACAGAGATTGTTCACTGGCATGCAAACGTTAGAACCAAGTGTGTC
 TGTGTTGGTGGAGATGGATCTGCTAGCGAAGTAGCCCATGCTTTGCTTCTGAGAGCTCAGAAGAATGCTG
 GGATGGAAACAGACCGAATCCTGACTCCTGTACAGCACAGCTTCCACTTGGCTTAATACCAGCAGGATC
 TACCAATGATTGGCACATTCTCTTATGGAGTTCCTCATGTGATAACTGCAACATTGCACATTATAATG
 GGCATGTACAGCTGGTCGACGCTGCACCTTCAGCACCCTGGCAAGCTTCTTCGCTTTGGGTTCTCAG
 CCATGTTTGGCTTTGGTGAAGAAGTCTGGCTCTGGCAGAAAAATATCGATGGATGTCCCCTAACCAACG
 GAGAGATTTTGTGTTGTTAAGGCACTGGCAAACTTAAGGCAGAAGACTGTGAAATATCATTTTTACCA
 TTTAACAGCTCTGATGATGTGAAGAAAGGAGGGCACAGGGATCTCCAAATCTGACTGTAATGATCAAT
 GGCAAATGATCCAGGGTCAGTTCTTGAATGTCAGCATTATGGCAATTCCTGCTGTGTTGAGTGGCACC
 TAGAGGCTTGGCACCTAATACCAGATTAATAATGGAAGTATGGCTCTTATAATTGCCCGAAACACTTCT
 CGGCCAGAATTTATAAACACCTGAAAAGATATGCCAGTGTAAAAAATCAGTTCAATTTTCCATTTGTTG
 AGACTTACACTGTTGAGGAAGTAAAAGTTCATCCAAGGAATAATACTGGTGGATATAATCCAGAGGAGGA
 GGAGGATGAACTGCTTCAGAAAATTGTTCCCTTGGAAATGTAGATGGTACTTAATGGAAGTTGCATCA
 GAGGTCCATATTAGATTGCATCCAAGACTTATCAGTCTTATGGAGGAAGCATGGAAGAAATGATTCCAA
 AG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228421 representing NM_001160277
 Red=Cloning site Green=Tags(s)

MPWRRRRNRVSALEGGREEEAPPEAAAVPPALLTSPQQTEAAAERILLRGIFEIGRSDCDVVLSEALRW
 RPIQPERPAGDSKYDLLCKEEFIELKDIFSVKLRRCVSKQQRSGTLLGITLFIKKEQNKLKNSTLDL
 INLSEHCDIWFQFKILAVMEYEGHALSLLKECELQGFDDGHRKPLFAIHWVQRLFTGMQTLPSV
 CVGGDGSASEVAHALLLRAQKNAGMETDRILTPVRAQLPLGLIPAGSTNVLAHSLHGVPHVITATLHIIM
 GHVQLVDVCTFSTAGKLLRFSGSAMFGGGRTLALAEKYRWMSPNQRRDFAVVKALAKLKAEDCEISFLP
 FNSSDDVQERRAQSPKSDCNDQWMIQGFNLVNSIMAIPLCSVAPRGLAPNTRLNNGSMALIIARNTS
 RPEFIKHLKRYASVKNQFNFPFVETVVEEVKVHPRNNTGGYNPEEEDETAENCFPNVVDGDLMEVAS
 EVHIRLHPRLISLYGGSMEEMIPK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001160277

ORF Size: 1542 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_001160277.1](#), [NP_001153749.1](#)

RefSeq Size: 3172 bp

RefSeq ORF: 1545 bp

Locus ID: 375298

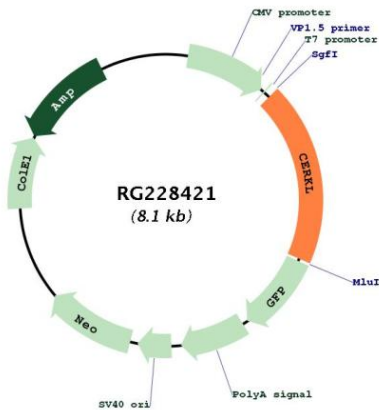
UniProt ID: [Q49MI3](#)

Cytogenetics: 2q31.3

Protein Families: Druggable Genome

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 RG228421