

Product datasheet for **RC227818**

KLRAQ (PPP1R21) (NM_001135629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLRAQ (PPP1R21) (NM_001135629) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLRAQ
Synonyms:	CCDC128; KLRAQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227818 representing NM_001135629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCGGCTGAGTTGCAGGGGAAGTACCAGAAGCTGGCTCAGGAGTACTCGAAGCTTCGGGCTCAGA
 ATCAGGTTCTGAAAAAGGTGTTGTGGATGAACAAGCAAATTCGCAGCTTTAAAGGAGCAACTGAAAAAT
 GAAGGATCAGTCATTGAGAAAACTACAACAGGAAATGGACAGTTTGACATTTTCGAAATCTGCAGCTTGCC
 AAGAGGGTAGAACTACTTCAAGATGAACTAGCTCTAAGTGAACCACGAGGCAAGAAAAACAAGAAAAGTG
 GAGAATCTTCTCAGTTGAGTCAAGAGCAGAAGAGTGTCTTTGATGAAGATCTGCAAAAAGAAGATAGA
 AGAGAATGAACGGTTGCATATACAATTTTTGAAGCTGATGAGCAGCACAAAGCATGTGGAAGCAGAGCTG
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 GTCAGTACAACGCTCTGAACGTTCCACTCCACAATAGGAGACACCAGCTGAAGATGCGAGATATTGCTGG
 GCAGGCCCTGGCTTTTGTTCAGGATCTTGTGACGGCTCTTCTAACTTTTCATACCTACACAGAACAGAGG
 ATTCAAATTTTTCTGTTGATTCTGCCATTGACACTATATCTCCATTGAATCAGAAGTTCTCACAATACC
 TTCATGAAAAATGCGTCTATGTCGCCCTCTTGAGGAAGGAATGCTTCATTTATTTGAAAGTATCACTGA
 GGATACTGTGACTGTCTTGAGACAACGTGAAATTTGAAAATTTTTCAGAACACTTAACCTCCTACATA
 TGTTTTCTTAGGAAGATCTTCCCTATCAGTTAAAAAGTTTAGAAGAAGAATGTGAATCCTCTCTTTGCA
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 AGTTCTGTGTTAACAAATGTTGGTGTCTGCTGCTGATGTTTATGACGTTATGAAAAGATATTTCCAAAC
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 CTGTATCTGTCACTCAGTAGTGGCATTAAACAAATGGAGCAGGAAAGATTGCATCCTTCTTCAGCAACAAT
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 AGGTAGTGCCAGCTGGTTGGGCTGGCCAGGAAAATGCTGCTGTGTCAAATACTGCTGGCCAGGATGAA
 GCCACAGCTAAGGCTGTGTTGGAGCCATTAGAGCACCAGTCTAATTGGGACTTTAACCAGGACATCTG
 ACAGTGAGGTTCCAGATGTGGAATCTCGTGAAGACTTAATTAATACTACTACATGGCAAGGATAGTGGAA
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 TCAGCAGACTTCAGGATGAGCTGACAACCTACCAAGAGGAGTTACGAGGATCAGTTAAGTATGATGAGTGA
 CCACCTGTGCAGCATGAATGAGACATTATCTAACAGAGAGAAGAGATTGACACACTAAAGATGTCCAGT
 AAGGGGAATTTAAAAAGAACAAGAGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227818 representing NM_001135629
 Red=Cloning site Green=Tags(s)

MASAEIQGKYQKLAQEYSLRAQNVLKKGVVDEQANSAALKEQLKMKDQSLRKLQQEMDSLTFRNQLA
 KRVELLQDELALSEPRGKKNKSGESSQLSQEQKSVFDEDLQKKIEENERLHIQFFEADEQHKHVEAEL
 RSRLATLETEAAQHQAQVVDGLTRKYMETIEKLQNDKAKLEVKSQTLEKEAKECRLRTEECQLKTLHED
 LSGRLEESLSIINEKVPFNQKFSQYLHENASYVRPLEEGMLHLFESITEDTVTVLETTVKLKTFSHLSYI
 IQIFPVDSAIDTISPLNQKFSQYLHENASYVRPLEEGMLHLFESITEDTVTVLETTVKLKTFSHLSYI
 CFLRKILPYQLKSLEEECESSLCTSAARARNLELSQDMKKMTAVFEKLQTYIALLPSTEPDGLLRNTY
 SSVLTNVGAALHGFHDMKDISKHYSQKAAIEHELPTATQKLITNDICILSSVVALTNGAGKIASFFSNN
 LDYFIASLSYGPKAASGFI SPLSAECMLQYKKAAYMKSLRKPLLESVPYEEALANRRILL SSTESREG
 LAQQVQQSLEKISKLEQEKEHWMLAQAKIKLEKENQRIADKLNKNTGSAQLVGLAQENAAVSNTAGQDE
 ATAKAVLEPIQSTSLIGTLTRTSDSEVPDVESREDLIKNHMARIVELTSQLQLADSKSVHFYAECRALS
 KRLALAEKSKEALTEEMKLASQNISRLQDELTTTKRSYEDQLSMMSDHLCMNETLSKQREEIDTLKMS
 KGNSKKNKSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001135629

ORF Size: 2340 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_001135629.3](#)

RefSeq Size: 3181 bp

RefSeq ORF: 2343 bp

Locus ID: 129285

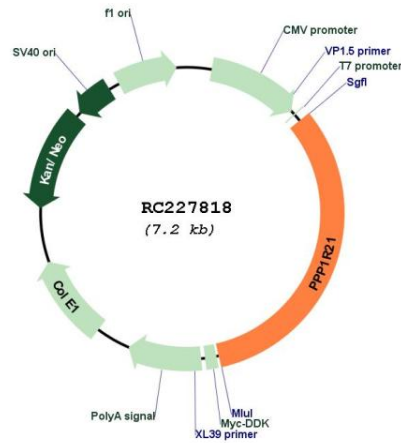
UniProt ID: [Q6ZMI0](#)

Cytogenetics: 2p16.3

MW: 88.3 kDa

Gene Summary: Putative regulator of protein phosphatase 1 (PP1) activity (PubMed:19389623). May play a role in the endosomal sorting process or in endosome maturation pathway (PubMed:30520571).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227818