

Product datasheet for **RC224307**

KLRAQ (PPP1R21) (NM_152994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLRAQ (PPP1R21) (NM_152994) 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:**

>RC224307 representing NM_152994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCGGCTGAGTTGCAGGGGAAGTACCAGAAGCTGGCTCAGGAGTACTCGAAGCTTCGGGCTCAGA
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 GAAGGATCAGTCATTGAGAAAACTACAACAGGAATGGACAGTTTGACATTTTGAAGTCTGCAGCTTGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC224307 representing NM_152994
 Red=Cloning site Green=Tags(s)

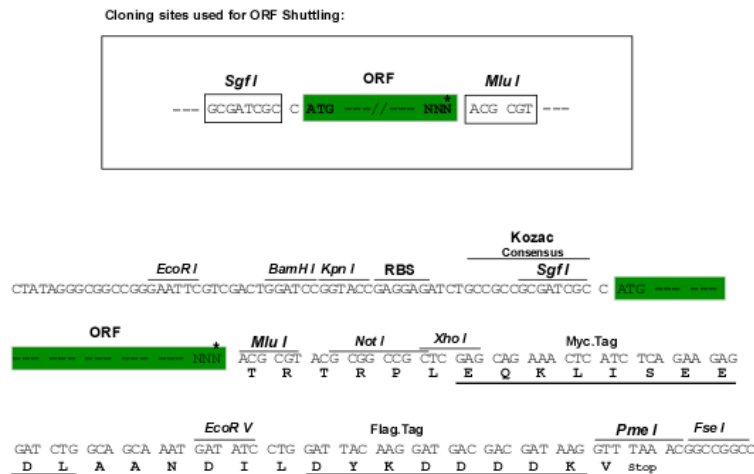
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 ATAKAVLEPIQSTSLVPDVESREDLIKHYMARIVELTSQLADSKSVHFYAECRALSKRLALAEKSKE
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4242_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_152994

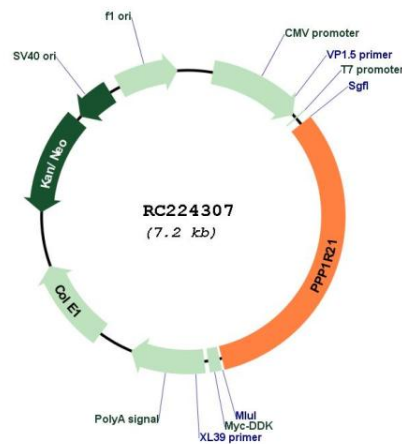
ORF Size: 2307 bp

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](#)

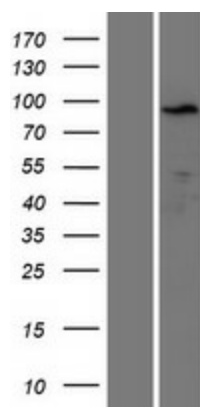
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_152994.5</u>
RefSeq Size:	3155 bp
RefSeq ORF:	2310 bp
Locus ID:	129285
UniProt ID:	<u>Q6ZMI0</u>
Cytogenetics:	2p16.3
MW:	87 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]

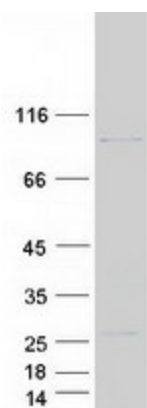
Product images:



Circular map for RC224307



Western blot validation of overexpression lysate (Cat# [LY407235]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP1R21 protein (Cat# [TP324307]). The protein was produced from HEK293T cells transfected with PPP1R21 cDNA clone (Cat# RC224307) using MegaTran 2.0 (Cat# [TT210002]).