OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG224307

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:	TurboGFP
Symbol:	KLRAQ
Synonyms:	CCDC128; KLRAQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG224307 representing NM_152994
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGGCTGAGTTGCAGGGGAAGTACCAGAAGCTGGCTCAGGAGTACTCGAAGCTTCGGGCTCAGA
ATCAGGTTCTGAAAAAAGGTGTTGTGGATGAACAAGCAAATTCTGCAGCTTTAAAGGAGCAACTGAAAAT
GAAGGATCAGTCATTGAGAAAACTACAACAGGAAATGGACAGTTTGACATTTCGAAATCTGCAGCTTGCC
AAGAGGGTAGAACTACTTCAAGATGAACTAGCTCTAAGTGAACCACGAGGCAAGAAAAACAAGAAAAGTG
GAGAATCTTCTTCTCAGTTGAGTCAAGAGCAGAAGAGTGTCTTTGATGAAGATCTGCAAAAGAAGATAGA
AGAGAATGAACGGTTGCATATACAATTTTTTGAAGCTGATGAGCAGCACAAGCATGTGGAAGCAGAGCTG
AGGAGTCGACTGGCCACTCTGGAGACAGAAGCAGCCCAGCACCAAGCTGTGGTTGACGGTCTCACCCGGA
AGTACATGGAAACCATTGAGAAGCTGCAGAACGACAAGGCTAAACTAGAAGTGAAATCTCAGACTCTAGA
AAAGGAAGCCAAGGAATGTCGACTTCGAACGGAAGAATGTCAATTACAGTTAAAGACTCTTCATGAAGAT
TTGTCAGGTAGATTAGAGGAATCCTTATCAATCATCAATGAAAAAGTACCTTTTAATGATACAAAATATA
GTCAGTACAACGCTCTGAACGTTCCACTCCACAATAGGAGACACCAGCTGAAGATGCGAGATATTGCTGG
GCAGGCCCTGGCTTTTGTTCAGGATCTTGTGACGGCTCTTCTAAACTTTCATACCTACACAGAACAGAGG
ATTCAAATTTTTCCTGTTGATTCTGCCATTGACACTATATCTCCATTGAATCAGAAGTTCTCACAATACC
TTCATGAAAATGCGTCCTATGTCCGCCCTCTTGAGGAAGGAATGCTTCATTTATTTGAAAGTATCACTGA
GGATACTGTGACTGTCTTGGAGACAACTGTGAAATTGAAAACTTTTTCAGAACACTTAACCTCCTACATA
TGTTTTCTTAGGAAGATTCTTCCCTATCAGTTAAAAAGTTTAGAAGAAGAATGTGAATCCTCTCTTTGCA
CATCTGCGTTAAGAGCCAGGAATCTAGAGCTGTCCCAGGACATGAAAAAAATGACAGCTGTGTTTGAGAA
GCTGCAGACTTACATAGCTCTTCTTGCCTTGCCAAGTACAGAGCCAGATGGACTCCTTCGGACAAACTAC
AGTTCTGTGTTAACAAATGTTGGTGCTGCTCTGCATGGATTTCATGACGTTATGAAAGATATTTCCAAAC
ATTATAGTCAAAAAGCTGCAATAGAGCATGAACTTCCAACAGCAACACAGAAGCTGATAACAACTAATGA
CTGTATCCTGTCATCAGTAGTGGCATTAACAAATGGAGCAGGAAAGATTGCATCCTTCTTCAGCAACAAT
TTGGACTACTTCATTGCTTCACTGAGCTATGGACCTAAGGCAGCGAGTGGATTCATTAGTCCTCTTTCAG
CTGAATGCATGCTACAGTATAAGAAAAAAGCTGCTGCCTATATGAAGTCTTTGAGAAAGCCCCTCTTGGA
GTCTGTGCCTTATGAAGAAGCACTGGCAAACCGCCGCATCCTTCTCAGCTCTACTGAAAGTCGAGAAGGC
CTTGCACAGCAAGTTCAACAGAGTTTGGAAAAGATTTCTAAACTGGAGCAGGAAAAAGAACATTGGATGT
TGGAAGCACAATTAGCCAAAATCAAGCTAGAGAAAGAAAACCAGCGAATTGCAGATAAGCTGAAGAATAC
AGGTAGTGCCCAGCTGGTTGGGCTGGCCCAGGAAAATGCTGCTGTGTCAAATACTGCTGGCCAGGATGAA
GCCACAGCTAAGGCTGTGTTGGAGCCCATTCAGAGCACCAGTCTAGTTCCAGATGTGGAATCTCGTGAAG
ACTTAATTAAAAATCACTACATGGCAAGGATAGTGGAACTTACGTCTCAGTTGCAGCTGGCTGACAGTAA
GTCAGTGCATTTTTATGCCGAGTGCCGAGCACTGTCTAAAAGACTGGCCTTGGCTGAAAAGTCTAAGGAA
GCATTGACAGAAGAAATGAAACTTGCCAGTCAGAACATCAGCAGACTTCAGGATGAGCTGACAACTACCA
AGAGGAGTTACGAGGATCAGTTAAGTATGATGAGTGACCACCTGTGCAGCATGAATGAGACATTATCTAA
ACAGAGAGAAGAGATTGACACACTAAAGATGTCCAGTAAGGGGAATTCTAAAAAGAACAAGAGTCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

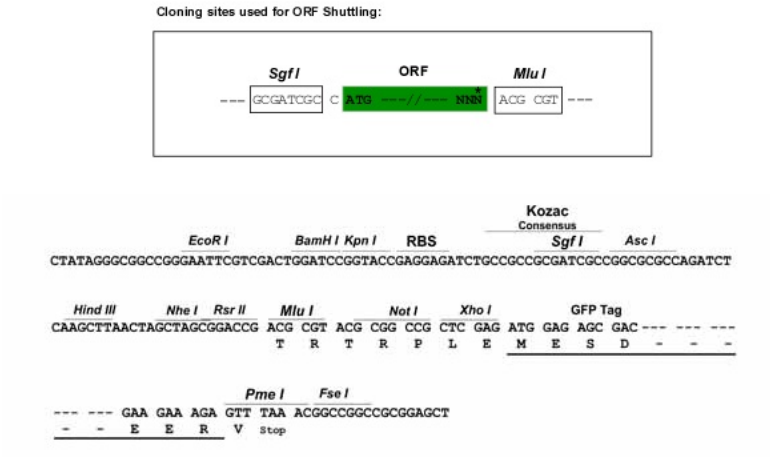
>RG224307 representing NM_152994
Red=Cloning site Green=Tags(s)

MASAELQGKYQKLAQEYSKLRAQNQVLKKGVVDEQANSAALKEQLKMKDQSLRKLQQEMDSLTFRNLQLA
KRVELLQDELALSEPRGKKNKKSGESSSQLSQEQKSVFDEDLQKKIEENERLHIQFFEADEQHKHVEAEL
RSRLATLETEAAQHQAVVDGLTRKYMETIEKLQNDKAKLEVKSQTLEKEAKECRLRTEECQLQLKTLHED
LSGRLEESLSIINEKVPFNDTKYSQYNALNVPLHNRRHQLKMRDIAGQALAFVQDLVTALLNFHTYTEQR
IQIFPVDSAIDTISPLNQKFSQYLHENASYVRPLEEGMLHLFESITEDTVTVLETTVKLKTFSEHLTSYI
CFLRKILPYQLKSLEEECESSLCTSALRARNLELSQDMKKMTAVFEKLQTYIALLALPSTEPDGLLRTNY
SSVLTNVGAALHGFHDVMKDISKHYSQKAAIEHELPTATQKLITTNDCILSSVVALTNGAGKIASFFSNN
LDYFIASLSYGPKAASGFISPLSAECMLQYKKKAAAYMKSLRKPLLESVPYEEALANRRILLSSTESREG
LAQQVQQSLEKISKLEQEKEHWMLEAQLAKIKLEKENQRIADKLKNTGSAQLVGLAQENAAVSNTAGQDE
ATAKAVLEPIQSTSLVPDVESREDLIKNHYMARIVELTSQLQLADSKSVHFYAECRALSKRLALAEKSKE
ALTEEMKLASQNISRLQDELTTTKRSYEDQLSMMSDHLCSMNETLSKQREEIDTLKMSSKGNSKKNKSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: NM_152994.5

RefSeq Size: 3155 bp

RefSeq ORF: 2310 bp

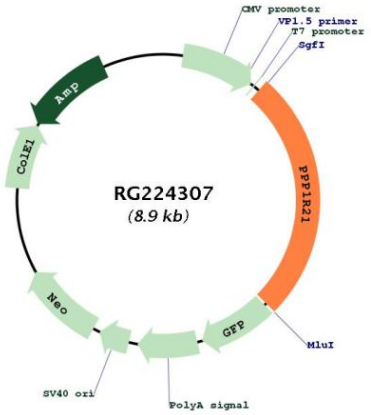
Locus ID: 129285

UniProt ID: Q6ZMI0

Cytogenetics: 2p16.3

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 RG224307