

GCTAGCCTGGAAGAGGTCAATGATGAAGGTTATACACCATTGATGGAAGCAGCTCGAGAAGGACATGAAG
AAATGGTGGCATTACTTCTTGGTCAAGGAGCAAATATCAATGCACAGACAGAAGAACTCAAGAACTGC
CTTGACTCTGGCTTGGCTGGAGGCTTCTGGAAGTGGCAGACTTCTAATTAAGGCAGGAGCCGATATA
GAACTAGGGTGTCTACCCCTTTAATGGAAGCTGCTCAAGAGGGTCATTTGGAGTTAGTTAAATACTTAT
TAGCTGCAGGAGCTAACGTTTCATGCAACAACAGCAACAGGGGATACAGCACTAACATATGCTGTGAAAA
TGGTCATACTGATGTAGCAGATGTCTTACTTCAGGCAGGCGCAGATCTGGAACATGAATCTGAAGGTGGA
AGAAGTCTTTAATGAAAGCTGCAAGAGCTGGTCATGTTTGTACTGTTTCAGTTCTTAATTAGTAAAGGAG
CGAATGTGAATAGAACACAGCTAATAATGACCATACTGTACTGTCCCTGGCTTGTGCAGGGGGTCATCT
GGCAGTGGTGGAAGTACTTTGGCTCATGGGCAGATCCTACTACCGTTTGAAAGATGGCTCAACTATG
TTGATAGAAGCAGCAAAAGGTGGCCATACAAGTGTGTTTGTCTCTCTTGGATTATCCTAATAACTTGC
TTTCAGCCCCCTCCACCAGATGTCACTCAGTTAACTCCCCATCCCACGATTTAAATAGGGCTCCTCGTGT
ACCAGTTCAAGCACTGCCATGGTTGTTCCACCTCAGGAGCTGACAAACCACCTGCCAATGTTGCCACC
ACTCTTCCCATCAGGAATAAAGCTGCTTCTAAACAAAAGTCCAGCAGCCATTTGCCAGCAACAGCCAGG
ATGTACAGGGTTACATCACCATCAGTCTCCAGAGAGCATTGTAGAAGAGGCTCAGGGAAAGTTAACAGA
ACTGGAACAGAGGATAAAAGAAGCCATAGAAAAGAAATGCACAGCTGCAGTCTTGAAGTGGCTCATGCT
GACCAACTTACCAAGGAGAAGATCGAGGAGCTCAACAAAACAAGGAGGAACAAATTCAGAAAGAACAA
AGATTTTGGAGGAAGTACAGAAAGTAGAACGAGAGTTACAAGTGAAGTCAAGTCAAGCAGCAGTAAAAAGCA
GTATCTAGAGGTTAAAGCTCAAAGAATTCAGTCAACAGCAGCAACAGTCTTGCCAACACCTGGGA
TTACTAAGTCTGTTGGAGTTGGAGAGCAGCTTCTGAGGGAGACTATGCACGGTTACAGCAAGTGGATC
CTGTTTTACTTAAAGTGAACCCAGCAGACTGCTGCTCAGATGGGTTTTGCGCCAATCCAGCCTCTGGC
GATGCCTCAAGCTTTGCCCTGGCGGCAGGTCCTTGCCTCCAGGGTCCATCGCAATCTTACAGAACTG
CAAGGAGTGATAGTTGGACAGCCAGTACTGGGCCAAGCACAGTTGGCAGGGCTGGGGCAAGGAATCTGA
CAGAAACACAACAGGGTTAATGGTAGCCAGCCTGCTCAGACCCCTCAATGACACGCTGGATGACATCAT
GGCAGCAGTCAGTGGAAGAGCATCTGCAATGTCAAACACTCCTACCCACAGTATTGCTGCATCCATTTCC
CAACCTCAGACTCCAAGTCCAAGTCTATCATCTCTCTTCCAGCCATGCTTCTATCTACCTGCCATTG
ATATTGATGCACAGACTGAGAGTAATCATGACACGGCGCTAACACTTGCCTGTGCTGGTGCCACAGGGA
ACTGGTACAAACACTGCTAGAGAGAGGAGCTAGTATAGAGCACCGAGACAAGAAAGGTTTTACTCCACTC
ATCTTGGCTGCCACAGCTGGTCATGTTGGTGTGTTGGAATATTGCTGGACAATGGTGCAGACATTGAAG
CCCAGTCTGAAAGAACCAAGGACACACCACTCTCCTTGGCTTGTCTGGGGGAAGACAGGAGGTGGTGGA
GCTATTGTTAGCTCGAGGGGCAATAAAGAGCACAGGAATGTTTCTGATTACACACCTCTAAGTCTGGCT
GCTTCTGGTGGCTATGTGAACATCATCAAAATATTACTAAATGCAGGAGCTGAGATTAAGTCTAGAACTG
GTAGCAAAATTGGGCATCTCTCCTCTGATGTTAGCAGCTATGAATGGGCATACAGCTGCTGTTAAGCTCCT
GTTAGACATGGGCTCTGACATAAATGCTCAGATAGAAACCAATCGGAACACTGCCCTTACTTTAGCTGCT
TTCCAAGGAAGAACTGAAGTGGTTAGTCTTCTGCTTGATAGAAAAGCAAAATGTTGAACACAGAGCTAAGA
CTGGTCTCACACCACTAATGGAAGCTGCCTCTGGTGGATATGCGGAGGTGGGCGAGTCTTTTGGATAA
AGGTGCTGATGTTAATGCCCCCTCAGTTCCCTCCTCAAGAGATACAGCTTTAACCATAGCAGCAGATAAA
GGGCATTACAAATTCTGTGAGCTTCTTATTGGCAGGGGAGCTCATATTGATGTACGTAACAAGAAGGGGA
ACACTCCATTGTGGCTAGCAGCAAAATGGTGGACACCTCGATGTGGTTCAGTTACTGGTGAAGCAGGTGC
AGATGTGGATGCAGCAGATAACCGCAAGATAACTCCTCTTATGGCAGCATTAGAAAAGGTTCATGTGAAG
GTGGTGCCTACTTAGTCAAAGAAGTCAATCAGTTTCCATCAGATTCTGAATGTATGAGATACATAGCAA
CCATCACTGATAAGGAGATGCTGAAGAAGTGTATCTTTGTATGGAGTCAATAGTACAAGCCAAAGATAG
ACAGGCTGCTGAAGCAAAACAAAACGCCAGCATTTTGTAGAGGAGTTAGACTTGGAAAAGTTAAGGGAA
GAAAGTCGGAGGCTGGCTTTGGCTGCGAAAAGAGAAAAAGAAAAGAGAAGAGAAGGAAGAAAAGGAAG
AACAAAGAAGGAACTAGAAGAAATTGAAGCCAAAAATAAAGAGAAGTCTTGAAGTCAAGCTGCTCAAGA
AAAAGAAAAGCTTAAAGTTGAAGATGAGCCTGAAGTCTTGACAGAACCTCAAGTGCCACAACCACTACT
ACCATAGGTATATCTGCAACCTGGACAACCTTGGCAGGTTCTCATGGTAAAAGAAATAATACCATACTA
CAACCAGTTCAAAGAGGAAAAACAGGAAAAATAAAATTACTCCAGAAAACGTTCAAATTATTTTGTATGA
TCCACTACCAATTTTCATACAGTCAGCCAGAGAAGGTGAATGGAGAGTCCAAGAGCAGCAGTACCAGCGAG
AGTGGGGACAGTGATAACATGAGGATTTCCAGCTGCAGCGATGAAAGTAGTAACAGCAACAGCAGTCGTA
AGAGTGACAATCATTCACCAGCTGTGGTCACTACCACTGTGAGCAGCAAAAAGCAGCCATCAGTTCTTGT
TACATTTCCAAAGGAAGAGAGAAAATCTGTTTCTGGCAAGGCTTCAATAAAATTTGTCAGAAAATATCAGT
GAAGGGACCAGTAATTTCTATCTACTTGTACAAAATCTGGTCCATCTCCCTTTCTTCTCCAAATGGGA

AGTTAACAGTAGCAAGTCTAAGCGTGGGCAAAAGAGGGAAGAAGGATGGAAAGAAGTTGTAAAGAAGGTC
 AAAGAAAGTATCTGTTCCATCAACTGTGATATCCAGAGTGATTGGAAGAGGAGGCTGTAATATCAATGCT
 ATTCGGGAGTTTACTGGTGCACACATAGATATTGATAAACAGAAAGACAAGACTGGAGACCGGATAATCA
 CTATAAGGGGTGGCACTGAATCAACAAGACAAGCAACTCAATTGATTAATGCTTTGATCAAGGATCCAGA
 CAAAGAAATTGATGAACCTATTCCAAAGAATCGTTTAAAAGCTCCTCAGCAAATTCAAAATAGGGTCA
 TCAGCACCTACCACTGCTGCTAACACTTCCTTAATGGGAATTAATGACAAGTGTAGCTCTGTCTCAT
 CAACATCTCAAACTGCCACAGCACTCACTGTGCCTGCAATTTCTTCTGCATCCACTCACAAAACCATTA
 GAACCCAGTGAATAATGTGAGGCCTGGTTTTCCAGTTTTCTTCCATTAGCATATCCTCCTCCACAGTTT
 GCACATGCTTTGCTTGTCTGCTCAGACTTCCAGCAGATCCGTCCACCAAGGTTGCCCATGACCCACTTTG
 GAGGTACTTTTCCACCAGCTCAATCCACTTGGGGTCCGTTTCTGTGAGGCCTTTGAGCCCTGCCAGAGC
 TACTAACTCGCCTAAGCCTCACATGGTGCCTCGCCATAGCAATCAGAATAGCAGTGGTTCTCAGGTGAAT
 TCAGCAGGTTCTTTAACTTCAAGCCCAACAACTACAACCAGTTCATCAGCTTCAACGGTGCCTGGTACAT
 CTACAAATGGCAGTCCAAGTTCACCTTCTGTCCGAAGGCAGCTTTTTGTCACAGTTGTGAAGACATCCAA
 TGCCACCACAACAACAGTCACAACCACGGCAAGCAACAACAACTGCACCCACAATGCCACATATCCT
 ATGCCTACTGCCAAAGAACACTATCCAGTATCATCCCCATCTTCCCCATCACCACCAGCCAGCCAGGAG
 GGGTTTCTAGAAACAGCCCTTTGGATTGTGGATCAGCATCTCAAATAAAGTGGCATCTTCTCCGAACA
 GGAAGCAGGTAGTCCACCAGTAGTAGAAACAACAACAACTAGACCTCAAACAGCAGCAGTTCTTCTGGG
 AGTTCATCAGCTCATTCTAATCAGCAACAACCTCCGGGATCTGTTTCTCAGGAACCAAGACCACCTCTTC
 AGCAGTCTCAGGTTCTCCCCCGAAGTTAGAATGACTGTTTCTCCTTTAGCAACAAGTTCTGCTCCAGT
 GGCGGTGCCTTCTACTGCCCCAGTGACTTACCCTATGCCTCAGACACCAATGGGATGCCCCCAGCCTACT
 CCTAAATGGAACCCCTGCTATTAGACCACCCCTCATGGCACAACCTGCCCCCACAAGAATTCAGCTT
 CAGTGCAAAATTCATCTGTTGCAGTCTCAGTGCAATCACATTAAGAGCCTCAGAGTGTCCCTCTTC
 TGTCCAGCTACCTTCGACCTTAAGTACACAAAGTGCTTGTGAGAATTCAGTACATCCAGCAATAAGCCT
 ATTGCTCCCAATTCAGTGCCCCCTTACCATTGGGGCCCTTTAGCACATTGTTTGAAAACAGCCCTACTT
 CTGCTCATGCCTTCTGGGAGGATCTGTTGTTTCTCATCTCAGTCAACACCAGAATCTATGCTATCAGGAAA
 ATCCTCATATTTGCCAAATTCAGATCCTTTACATCAGTCTGATACTTCAAAGCTCCAGGTTTTAGACCA
 CCATTACAGAGACCTGCTCCAAGTCCCTCAGGTATTGTCAATATGGACTCGCCATATGGTTCTGTAACAC
 CTTCTTCAACACATTTGGGAACTTTGCTTCAAACATTTCAGGAGGTGAGTGTACGGACCTGGGGCACC
 CCTTGGAGGAGCACCCGAGCTGCTAACTTTAACAGACAACATTTTTCCCGCTTAGTTTGTGACTCCG
 TGTTTCATCAGCATCAATGATTCTTCTGCACAGTCAGTATCCTCGGGAGTTCGTGCACCATCTCCTGCCC
 CATCATCAGTACCGTTAGGGTCAGAAAAGCCAGCAATGTGTCTCAGGACAGGAAAGTTCAGTCCCTAT
 TGGGACTGAACGTTCTGCACGTATCAGGCAAACTGGAACGTGAGTCCATCTGTTATTGGGAGCAATTTG
 TCTACATCAGTAGGACATAGTGGCATCTGGTCCTTTGAAGGGATTGGTGGCAATCAAGACAAGTAGACT
 GGTGTAACCCTGGGATGGGAAATCCTATGATCCACAGACCGATGTCTGACCCAGGAGTATTTTACAACA
 TCAAGCAATGGAGCGAGATAGTACAGGAATTGTAACCTCTTCTGGTACATTCCATCAGCATGTTCTGCA
 GGCTACATGGACTTTCTAAAGTTGGGGGTATGCCTTTTTCTGTGTATGGGAATGCAATGATTCCTCCAG
 TAGCACCTATCCCTGATGGTGTGGAGGACCATATTTAATGGCCCTCATGCTGCAGACCTTCTTGGA
 CTCACGTGATAAAGATGGTTTCCAGCTCCACGGAATAATGGCCCTCAAACGGTGTGGACTGGACCCTGG
 GCACCTCATGAACAGTGTGCATATGAACCAGCTTGGC

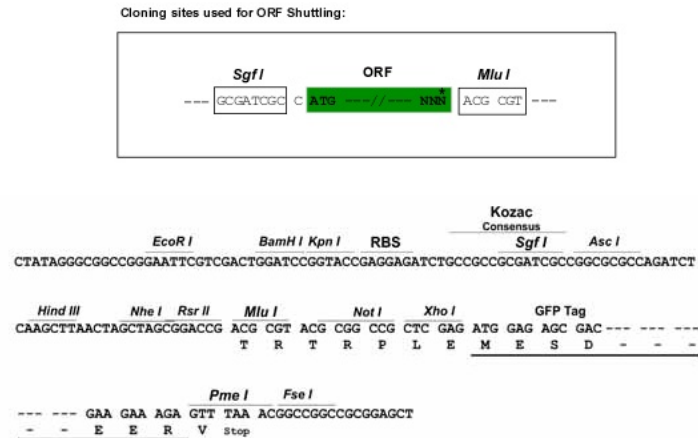
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224961 representing NM_032217
 Red=Cloning site Green=Tags(s)

```
MEKATVPVAAATAAEEGEGSPPAVAAVAGPPAAAEVGGGVGGSSRARSASSPRGMVRVCDLLKKKPPQQQ
HHKAKNRNTRCPPSSSESSSDNSGGGGGGGGGGGGGGTSSNNSEEEEDDDDEEEVSEVESFILDQD
DLENPMLETASKLLLSTADGADLRTVDPETQARLEALLEAAGIGKLSTADGKAFADPEVLRRLTSSVSC
ALDEAAAAALTRMRAESTANAGQSDNRSLEACSEGDVNAVVRKLLIEGRSVNEHTEEGESLLCLACSAGYY
ELAQVLLAMHANVEDRGIKGDITPLMAAANGGHVKIVKLLLAHKADVNAQSSGTNTALTYACAGGYVDV
KVLLESGASIEDHNENGHTPLMEAGSAGHVEVARLLLENGAGINTHSNEFKESALTLACYKGHEMVRFL
LEAGADQEHKTDDEMHTALMEACMDGHVEVARLLDLSGAQVNPADSFESPLTLAACGGHVELAALLIERG
ASLEEVNDEGYTPLMEAAREGHEEMVALLGQGANINAQTEETQETALTLACCGGFLEVADFLIKAGADI
ELGCSTPLMEAAQEGHLELVKYLAAAGANVHATTATGDTALTYACENGHTDVADVLLQAGADLEHESEGG
RTPLMKAARAGHVCTVQFLISKGANVNRTTANNDHTVLSACAGGHLAVVELLLAHGADPTHRLKDGSTM
LIEAAKGHTSVVCYLLDYPNLLSAPPPDVTQLTPPSHDLNRAPRPVQALPMVPPQEPDKPPANVAT
TLPIRNKAASKQKSSSHLPANSQDVQGYITNQSPESIVEEAQGKLELEQRIKEAIEKNAQLQSLELAHA
DQLTKEKIEELNKTREEQIQKKQKILEELQKVERELQLKTQQQLKKQYLEVKAQRIQLQQQQQQSCQHLG
LLTPVGVGEQLSEGDIARLQQVDPVLLKDEPQQTAQMGAQPIQPLAMPQALPLAAGPLPPGSIANLTEL
QGVIVGPVVLGQAQLAGLGGGILTETQQGLMVASPAQTLNDTLDIMAAVSGRASAMSNTPTHSIAASIS
QPQTPTPSPIISPSAMLPYPAIDIDAQTESNHD TALTLACAGGHEELVQTLLERGASIEHRDKKGFPL
ILAATAGHVGVVEILLNDGADIEAQSEKTDPLSLACSGGRQEVVELLLARGANKEHRNVSDYTPLSLA
ASGGYVNIKILLNAGAEINSRTGSKLISPLMLAAMNGHTAAVKLLLDMGSDINAQIETNRNTALTLAC
FQGRTEVVSLLDRKANVEHRAKTGLTPLMEASGGYAEVGRVLLDKGADVNAPPVPSRD TALTIAADK
GHYKFCCELLIGRAHIDVRNKKGNTPWLAAANGHLDVVQLLVQAGADVDAADNRKITPLMAAFRKGHV
VVRVYLVKEVNVQFSDSECMRYIATITDKEMLLKKCHLCMESIVQAKDRQAAEANKNASILLEELDLEKLRE
ESRRLLAALKREKRKEKRKKKEEQRRKLEEIEAKNKENFELQAAQEKEKLKVEDEPEVLTTPPSATTTT
TIGISATWTTLAGSHGKRNTITTTSSKRKNRKNKITPENVIIFDDPLISYSQPEKVNAGESKSSSTSE
SGSDSNMIRISSCDESSNSNRKSDNHSPAVVTTTVSSKKQPSVLVTFPKEERKSVSGKASIKLSETIS
EGTSNSLSTCTKSGPSPLSSPNGKLTVASPKRGQKREEGWKEVVRSSKKVSPSTVISRVIGRGGCNINA
IREFTGAHIDIDKQDKTGDRITIRGGTESTRQATQLINALIKDPDKEIDELIPKNRLKSSANSKIGS
SAPTTTAANTSLMGIKMTTVALSSTSQTATALTVAISSASTHKTIKNPVNNVRPGFPVSLPLAYPPPQF
AHALLAQTFQQIRPPRLPMTHFGGTFPPAQSTWGPFPVRPLSPARATNSPKPHMVPRHSNQSSSGSQVN
SAGSLTSSPTTTTSSASTVPGTSTNGSPSSPSVRRQLFVTVVKTSNATTTTVTTTASNNNTAPTATYP
MPTAKEHYVPSSPSSPPAQPGVSRNSPLDCGSASPKNVASSSEQEAGSPPVETNTNRPNSSSSSSG
SSSAHSNQPPGVSQEP RPPLQQSQVPPPEVRMTVPPLATSSAPVAVPSTAPVTYMPQTPMGCPQPT
PKMETPAIRPPPHGTTAPHKNSASVQNSSVAVLSVNHKRPHSVPSSVQLPSTLSTQSACQNSVHPANKP
IAPNFSAPLPFGPSTLFENSPTSAAHFWGGSVSSQSTPESMLSGKSSYLPNSDPLHQSDTSKAPGFRP
PLQRPAPSPSGIWNMDSYGSVTPSSSTHLGNFASNISGGQMYGPGAPLGGAPAAANFNQHFSPLSLLTP
CSSASNDSSAQSVSSGVRAPSPAPSSVPLGSEKPSNVSDQDRKVPVPIGTERSARIRQTGTSAPSVIGSNL
STSVGHSGIWSFEGIGGNQDKVDWCNPGMGNPMIHRPMSDPGVFSQHQA MERDSTGIVTPSGTFHQHVPA
GYMDFPKVGGMPFSVYGNAMIPPVAPIPDGAGGPINFNGPHAADPSWNSLIKMVSSSTENNGPQT VWTGPW
APHMNSVHMNQLG
```

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_032217

ORF Size: 7809 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_032217.4](#)

RefSeq Size: 9390 bp

RefSeq ORF: 7812 bp

Locus ID: 26057

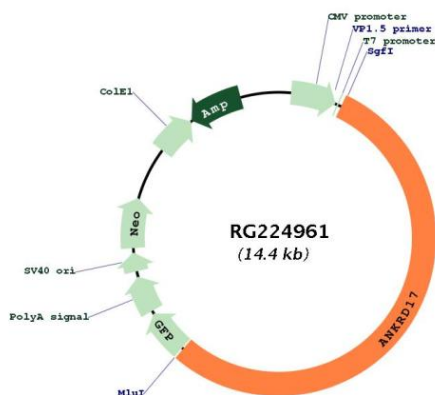
UniProt ID: [O75179](#)

Cytogenetics: 4q13.3

Domains: ANK, KH

Gene Summary: The protein encoded by this gene belongs to the family of ankyrin repeat-containing proteins, and contains two distinct arrays of ankyrin repeats in its amino-terminal region, one with 15 ankyrin repeats, and the other with 10 ankyrin repeats. It also contains a nuclear export signal, nuclear localization signal, and a cyclin-binding RXL motif. Localization of this protein to the nucleus has been shown experimentally, and interactions between this protein and cyclin-dependent kinase 2 have been observed. It has been suggested that this protein plays a role in both DNA replication and in both anti-viral and anti-bacterial innate immune pathways. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG224961