

Product datasheet for RC228699

ANKRD31 (NM_001164443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ANKRD31
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC228699 representing NM_001164443
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAAGGCGTCCAGGCCCCAGACTGGGACAGTGATGAACTGTGATAGAGGGTTCAGTGACGGAGA
GCGACCTGGAAGAAAAGGAGCTGCCCTGGAGAAGTTGCTGTTGATCAAGACGCATCTCTAAATCTGA
GTTTCAGTCTGCATCCTGATACAAGAGGAATGTGCAAAGGCATGCCTTCTCCTGAGATTCAACTTGGATTT
AAGCTCAGAGAGGATCTGCAAGAGCAATGAATAAAAAAAGATGATGCCTGTTCTTAGCGAGGATACAA
TATTACAGTCTCAAGATGAAACAGAACGAAATCAAGCTCTGTTACAGACTAGAAAAAAGTTCATGTT
CATTGGGTCGTTTCGCCAGTCTGGACTTTTCATTGAACCAACCAAAATATTGAAGGCCAGAGGCTGAAAGT
CCTGAAGTTTTGCCACACATAGAAAAGGAACTAAGTGAAGGCAGAGATTCTCCTGAAGTTAGCCTTCTCT
CAGGCACTGCTATTACAGTATCTGATACAGTTGCTGTAAGGAGACATCATTAGTAGAGCCAGAGAAGAT
TTTAGCAGCACCAATACATTTTTTGGAGCTAGAAAGGAAAGTCAATGACCATGACTTCTGAAGAACT
AAGGATGAAGAAAGCTCTCTTGAAACCTTTGTGCTGCCTTAGAAAGTTTACTTACATCACCAGAAAGCA
CCCAGGAGGAAAGATTGTTGAATTAGTAAGTGATTTTGATCGTAAAGAATTGATGAACCCATTGAGTGA
CTCTCTTAGTTCCATATCAATACCTTTGAATTCCTGGTCCGGCATGTCATAGAGATTTACTAGAAGATGCA
AAAGATGATGCATTGCCAGCTGAGTTATTGGAAGCCCTGAACACATTGTGAGAAGCCAAAGGTGGAACCA
TCTGTACAGAAAAAGGGAGGTAGCAGTCTATTGCCAGAAATGAATGTTAGAAGTGAGTTCAATAC
GTCTCAGACCAATGAAGATTGTACACAAATAGCAGAGACTCTGCAAGACCAAAATCCATCTGGATTGCAA
ACTTTGGTTCATCAAAATATCACTTCTTGTGAGCCACTAAGTAATAAGAGAAATTCAAATTCAGTGACAA
ATAGCTCTGATCAGGAACTGCGTGTGTGTTGAGGAGATCATCCAGACTAGAAAACTGAAAGTAAGCAG
AGATGCAAAGTACTCAGATCACATGTATAAGATGCCAGAAAAGATTTTACCAAAATCCTTGGCTGTGAG
GACCTAACAAATAATACTCTTCAGCTCAGAAATTCAGAAATGCAGGATCCGGCTTAAATGATTGATGGTA
AAGAGAAGAATATGCATTACAGCAAGGTTCAAGAATGGAACACAGATCAGGAAAAATGAACAATTTTCAGG
AAAAAAGAAAAATGAAGGTGAACAAAATATCTCTTCATAGCATTAAACCGAGAAACATTTTGGAGAG
AACTTAGTATATAAGGCTGCTACACGATGATGCTGATCTTGTTTCATCATTGTATAAAAAAAGGTGAA
ATGTTAATCAGCCAAGTTATGCTGGTTGGACAGCACTTCATGAAGCTAGTGATAGGAGGATTTTATCGGAC
AGCAAGTGAATATTAAAGGTGGAGCAGATGTAATATCAAAGGATTATACCAGATTACTCCCCTACAT



GATGCAGTGATGAATGGACATTATAAGGTGGCAGAGTTACTTCTTCTGAATGGAGCTGATCCATTATTTA
GAAATGATGATGGAAAATGTGCTTTGGATGAGGCCAAGGATTTATGTATGAAGCGTCTCCTTGAGAGATA
TATCCCTAAACATCAAAAATGCCTTACATCAGCTCAAAGGAGTAGCATTGACCCACTAGACATAGAGGAT
GTGTACCAACACAGAAGAACCAAGTTCAGTTCTAAAAGTCACATTTGGCATGTTTATAATGAAAATTTCCA
ACAGACAGAAGCTGGAACATGTAAAAGTCAATAAAGGAAGCAAGCGAGTTTATTTATAAATAAAGAAGA
TGTATATGAATATTACCAAAAAGATCCCAAAAACAAAAATTTGGTAAATCCAAGCATAAACAATCAACT
CTTGACCAGATATACTCTACAGGACTCAGAAAGGGCAATCTCCATAACGTCAAAGATCCCAACACAAACG
TACCAAAAAGGTATAGGAAGAAGAAAACACAACATAAAAGGACCCAAGTAGATGATGTAGACTGTATCC
AAGAAAAGATACTAGCTGTCTCTCTCCAGGAGAATAAACAGATTGGTTACCTATCAGCAGCATATTCCA
GAAACTCATAATGACCTTCCAGAAGAAATGTGTGAACCTTCCAGCTTAACCTGTCTCAAGCCTGAGAAATG
GATTAGATAGCAGTACTGAGGCTTGTTCAGTTTCCAAGAGAAAACATCCAGAACCTGGATTTTATCAGA
TAGTCAAGAAGTTCAATGCTTGGAAATAGAATCTGTTGACCAAACTGAAGCTGTTTCTTTCCAGGGCTT
TTATTACATAAAGAAATCAAGTTACCAGTTGTTACTACAGATAAGCAGCCTCACACTCTCCAGGAACAAC
ACCATGTACTTTTAAATCTCATGAAAACAGTAACCTGGTCCCAAAAGATGAGAGATTTAACAAATGGGA
AAATTTCTTCTATCCTTTGTAAAGGAAAATTCGATAATGATGATGATGATGATTGCTCTACCTCTGAG
AAGGCTATAACATCTAAAAGGTGTTGTGTTCTACAGGTGGCAAAAACACTATAATTTTAAGGAGAATT
TAACAAATAAAAAAGAAATGGGTTTCCAACAGTTTTTACTTTCTGAAGATCATCTTTCACAGGAAAATGA
GTTAAAAGCAGTCAGCCTAACACACTTCCAGAACAGGAAGCTGTTAATTTTCTTATTAGATAATGCA
GTTATTTCTGAACATGTTGCAAAATTAAGCAATGCATATTTGGACCTTCTTTGATCACTCAAAATGGCA
ATCCTGAGCAAAAATTCCTGGCTTGTATGAGAACACTTTTGACACATGAGGCTTCAAAGTTGACTAATCA
TGTGGAGCTATTCAAAAAGCCACAGGATTATTTCCAGAGCACCAACTTTTTTAATGAATCAAAACAGAT
ACACATATTGTGAAAAGATGGCAAGAATTGTGACACTGAGAGGAATTACATTGACAGAGACCAAAAAA
TAATTTATTCAAATGAGCCTTTATCCATAGTTGCTCATTCTCAAGTAATAGAAACAATAAGTTGAAAA
AAGGAGACAAAACCATCTAGAAAGTGAGACTATACACAATATAGATTCTCATTCCACTGACAATATGAGT
AAAGAATTGGCCAACATCTCAAACTTAGTCAAAGAGAAAAGAAGGAAATTTCTCACAACCAGGAATGA
AAGCAGGTAGGATCAACAAGAGGAATGCCAGAGGGGAAAGCCAGCTTCATTAGCTGTCTAGAGAGGAAA
TCTGCCCTAGTGAAAGCCCTGATAGAATCTGGAGCAGATGTGAATCTAAATGATAATGCAGGTTGGACA
CCACTTCATGAGGCATCTAATGAAGGATCTATTGATATAATTGTAGAGTTATTAAGAGCTGGTGCTAAGG
TTAATTGTGAAAATATAGATGGAATCTGCCCTTACATGATGCTGTTGCAACAATCATTTAAAGGCAGC
TGAGATTCTACTACAAAATGGAGCAAAACCCTAATCAAAAAGATCAAAAACAGAAGAGTGCTTTGGATGAA
GCAGATGATGAAAAATGAAAGAATTACTAAGATCTTATGGTGCTATTGAGACTGTTAATAGAGATGAGA
GTGATGCTATAGTCAATGAAAAATTCCTGCTGTCCGGTCTAAAAGACATAAACAGTGTTTTTGTGATGA
TGGCAAACTATTGACTCATCTCCCTTTCACACCAAGAAAGATCAAGAGAAAGCCTTCTGTGCATCAG
ACCCTCAGTGCCATTCTACAAGATATAGAAGAAAACAAGAATATTTATTAGAGTTTGAAATAAGAAACC
CTGAAGATGCAGAACATACATTGAAAAGATGTTAAAGATAAAAAAGATTATGGATAATGTGCTTGCCAA
GCAGAAAGCAGAAAAGGGATGATCTGGCTAAAAAATACAGGGTATCCATAGAGTCATTAAAGCATGGAGCC
CTGAGAGAACAATTGGCCAATTGGCTGCAAGACAGAAGAGCCTTTTAGTTGTGGCAAAAAAACAGAAAA
AAATAAGCCTGAAAATTCAAAAGTGTAGGAATGTTACATCATTGCCTTGTCTTAGTTTAAGGAAGCTCCC
ACCCAGATCAGAAATCTCTAGTAAAAAGACAGCCAAGAGCTCACTAGTCTGAAAAATTTAGAGCATCCC
CAATCAGGTTCACTTTCTCCTTTTCTGGAAGCATGCAGGAAACACAATTGTCTCTGGAACTTGGAAC
ACAGCCAAAATACCAACATTTGTCTAAATTCAGAGGCAGTGAGAAGGGGAGAATTTCTGGAATGATAT
GAATTTCAACAAAATGGCAGTGATTGTACCTTGGATGGTTTTCCAAAATCCAGACATTAGATGGCACA
GAGAAGAATAAATTACCATCCCAACCTGTTGCTTTTATTGGTCAACAGAAATTTACAGAAAGAGAATG
ATCTTACAGAAGCTACAGACAAAGACCATGAATTCATGTTTCTTCCCAAGTAATCGGCAAAATTAATAT
TTCAGAACTGCAAGTGCTTGGCGAAAATGCTGCCATCCATCAATATTATTTGTGATCAGGACCTT
TCCAATTATGATCCCAAGAGGAACAGAAAAACAAGTTCCAGCAATCACCTACAGGGGCATCAGAAT
CTCTGGCAGATCAAGGGATTGCTGTCTTAGGCAGTGATACAGTGATCAGATGAAACCATATCTTAAAAA
ATCAGTTTCTGTTTCCATGTGCAGATGACAGTCAGATCTCCTCTCCTCTGGATCTGGGCAACAGAT
ACAATAAAAAAGGCTTTAACTACAGTACAGCTCCTAAAAAGAAATGTATTAGATAAAAGATTTGATAT
TACTAGGAAGAATTAACCCAGGAAATAACATTCGGAATTCAAAACACAGGAGACTACCCACAAAGCCAG
TATTTTATTGAATGGTAACTTAAGGTAGAAAGTGGTCAGATTTAAAAAACCAGTCACCTGGCTCAAG
GATCTTCTGGGAGGCAACAGTTATGTGACCTGGAATTTATGCTTGGAGTAAGGTAACGTATCTTGGGAAGG
AGCTTTTAAGGTATGTTTCTGAGGATGCACCCATACTCCAGAACCAAACTCAGTACCTCAGCAATATCA
ACCTTGTCTTCCAGAAGTTGCTTGTGTTAGATGACCCAGTACAGGAACCAACAAATCAATGTTTGAGAAA
ACAAAATTTGGACAAGGAACTTCCAGAGAGTCAATGCAAGCAGCCACGTTATCTACAAAATAATGAAA
TACTATTAATCAGTGATCAAGAATTTCTCCCATGCCACATAATGGATCAGCATTGGAAGTTTGTGTGGA

ATGTGAGGAACAAACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228699 representing NM_001164443
Red=Cloning site Green=Tags(s)

MEEGVQAPDWSDSETVIEGVSDESLEEKELPWRRLLFDQDASLKSEFSLHPDTRGMCKGMPSPETQLGF
KLREDLQEQMNKNKMPVLS EDTILQSQDETERNQALLQTRKNCMSF IGSRQSGLSLNHQNIEGPEAES
PEVLPHIEKELSEGRDSPEVSLLSGTAITVS DTVAVKETS LVEPEKILAAPNTFFEPKREVTMTMTSEET
KDEESSLET FVSALESLLTSPSTQEERLFELVSDFDKELMNPLSDSLSSISIPLSWSACHRDLLLEDA
KDDALPAELLEALNTLSEAKVETICHRKEGSSLIARNECLEVEFNTSQTNEEDCTQIAETLQDPNPSSGLQ
TLAHQNI TSCEPLSNKRNSNSVTNSSDQETACVLRSSRLEKLKVS RDAKYSDHMYKMPKILPKILGCE
DLTNNNSSAQNFMRQDPALMIDGKEKNMHSARFKNGKQIRKNEQFSGKKEKMKVNKISLHSINRRNIFGE
NLVYKAALHDDADLVHHCIIKGGNVNQPSYAGWTALHEASVGGFYRTASELLKGGADVNIKGLYQITPLH
DAVMNGHYKVAELLLLNGADPLFRNDDGKCALDEAKDLCKMRLLERYIPKHQKCLTSAQRSSIDPLDIED
VYQHKPKFSSKSHIWHVYNNNSNRQKLEHVKNKGSKASLFINKEDVYEQYQDPKNTKFGKSKHKQST
LDQIYSTGLRKGNLHNVKDPNTNVPKIGIRRTQHKRTQVDDVDCNPRKILAVSPSRRINRLVTYQQHIP
ETHNDLPEELCEPSSLTSSLRNLDSSTEACSVSKEKHIQNLDLSDSQEVQCLELESVDQTEAVSFPG
LLHKEIKLPVVTDDKQPHLTQEQHVLKSHENSLVPKDERFNKWNESFLSFVKENSNDNDDDCSTSE
KAITSKKVL CSTGGKKHYNFENL TNKKEMGFQQFLL SEDHLSQENELKAVSL TTLPEQEA VNF SYSDNA
VISEHVANYEQCIFGPSFDHSNGNPEQNSLACMRTL THEASKL TNHVELFKKPQDYIPRAPTF LMNQTD
THIVEKMAKNCDTERNYIDRDQKIIYSNEPLSIVAHSQVIETTKVEKRRQNHLESETIHNIDSHSTDNMS
KELANISKLSQREKKEISHKPGMKAGRINKRNARGESQLHLAVRRGNLPLVKALIESGADVNLNDNAGWT
PLHEASNEGSIDIIVELLKAGAKVNCENIDGILPLHDAVANNHLKAAEILLQNGANPNQDKQKQSALDE
ADDEKMKELLRSYGAIETVNRDESDAIVNEKIPAVRSKRHKQCFCDGKTIDSSSLSHQERSRESLSVHQ
TLSAILQDIEEKQEYLLFEFIRNPEDAEQYIEKMLKIKKIMDNVLAKQKAERDDLAKKYRVSI ESFKHGA
LREQLANLAARQKSLLVVAKKQKKISLKIQNCRNVTSLPCLSLRKLPPRSEISSEKDSQELTSLLENLHP
QSGSLSPVSGSMQETQLSLETWNYSQNTNCLNSEAVRRGEFSGNDMNSKQNGSDCTLDGFPKSRHSDGT
EKNKLPSQPVAFIGQTEYSQKENDLTEATDKDHEFYVSSPVIKGLNISETASVLAENAAHPSNII CDQDL
SNYDPKRGNRKTSSQQSPTGASELAHQGI AVLGS DTVHQM KPYLKKSVSVVPCADD SQISSSSGSGQQD
TIKKALNYSTAPKKKCIQIKDLILLGRINPGNNILEFKTQETTHKASILLNGKLKVESGQIYKNPVTWLK
DLLGGNSYVTWNYAWSKVTYLGKELLRYVSEDAPILPEPNSVPQQYQPCPEVACLDDPVQEPNKSMEK
TKFGQGT SRESMQSSPRYLQINEILLISDQEFLPCHIMDQHWKFCVECELTP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

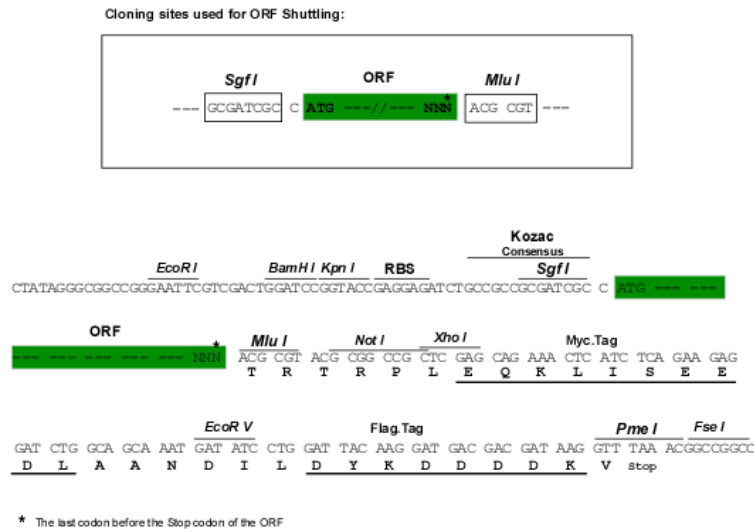
Chromatograms:

https://cdn.origene.com/chromatograms/mg8004_f05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001164443

ORF Size: 5619 bp

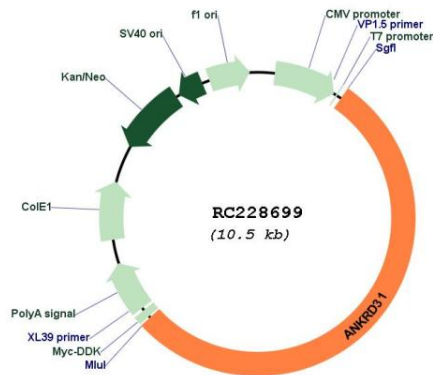
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001164443.1 , NP_001157915.1
RefSeq ORF:	5622 bp
Locus ID:	256006
UniProt ID:	Q8N7Z5
Cytogenetics:	5q13.3
MW:	210.6 kDa
Gene Summary:	This gene encodes a protein containing multiple ankyrin repeats. Ankyrin domains function in protein-protein interactions in a variety of cellular processes. Mutations in this gene are associated with a Rett syndrome (RTT)-like phenotype. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC228699