

Product datasheet for RC206701

ANKRD53 (NM_024933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD53 (NM_024933) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKRD53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206701 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCGCGGGCAGCACCGCTCGGCGGGCGGGCTCCGGAAGCTGGCACTCAGAAAGGGGAGAAGGGA
GAGGTGCTCGGCCGAGCCAACCTCAAGTGGCTCCATGCAGCAGGCGAACAAAGTCTCCTGAAGGCCAC
CTGGACTGACGCGGAGTCCAAGCAGCCAGCCAGCCCTGCCGACCTCGCAGACCACCTCAGTGCCGAG
GCGACTGCCCTCGCCAGGCCGCGCCGCCCTGCCTCGCTCACCCCGCCCGCGCTGACCCAGCCCGAGCA
AGGAGTCCGACCAGCGCAATCGACCAGACGGCGATCGGGAGCTACTACCAGCTGTTCCGACGGCTGT
GGCAACGTGGAATGGCTGCGATTCTGTCTGAACCAGAGCCTCAGGGAAATCCCCACCGACGACAAGGGC
TCACTGCCATCCAATTCGCCGCCCAATGGGGCAAGATTGCATGCCTGCAGGTCCTGGTAGAGGAGTACA
AGTTTCCCGTGGACCTGCTGACCAACAATAGCCAGACACCCCTGCACCTCGTCATCCACAGGGACAACAC
CACCGTGGCCCTCCCCTGCATCTACTACCTGCTGGAGAAAGGCGCAGACCTCAATGCTCAGACATGCAAC
GGCTCCACGCCCTGCACCTGGCAGCCCGTACGGCTTGTGGACTGTGTGAAGGTCCTGGTGCAGAGTG
GCGCCAACGTCCATGCCAAGATGCCATGGGCTACAAACCCATTGACTTCTGCAAAATATGGAACCCCG
TGCTGTGCCCGTTCTGAAGGATGCCATGTGAAAAAGGACAAGAAGGACTTTGCCCGTGAGATGACG
AAAATGAAGATGTTCAAGAGCCAGCTGACCCTCATGGAGCACAACCTGATTGAGTATCAAGGTCAAG
GATGCAGTGTGCACTTCCATTTGCCTTTTCCCCATCACACCAGAGACTCTCTATGGCAGGACATTTCT
TCTACTATCAGACTGTGGATTCTTTGGAGAAGAAGGGAATTGTCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206701 protein sequence
Red=Cloning site Green=Tags(s)

MASAGSTARRAGSGSWHSERGEGRGARPQPTPSGMQQANKVSLKATWTDAESKQPSQPLPDLADHLSAQ
 ATALARPRRPASLTTPRADPSPSKESDQTAIDQTAIGSYQYQLFAAAVGNVEWLRFCLNQSLREIPTDDKG
 FTAIHFAAQWGKIACLQVLVEEYKFPVDLLTNNSQTPLHLVIHRDNTTVALPCIYYLLEKADLNAQTCN
 GSTPLHLAARDGLLDCKVVLVQSGANVHAQDAMGYKPIDFCKIWNHRACARFLKIDAMWKKDKKDFAREMT
 MKMFKSQLTLMHNYLIEYQGQCSVHFFFAFSPITPETLLWQDISLLSDCGFLWRRRELSF

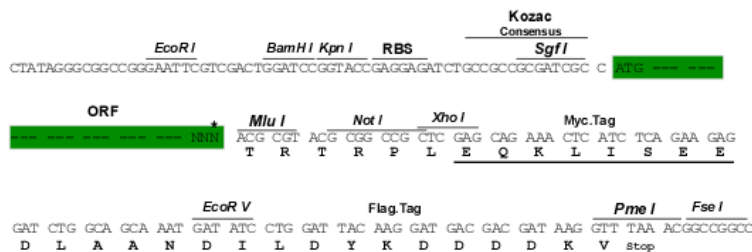
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6519_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024933

ORF Size: 1029 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_024933.2](#), [NP_079209.2](#)

RefSeq Size: 2120 bp

RefSeq ORF: 1032 bp

Locus ID: 79998

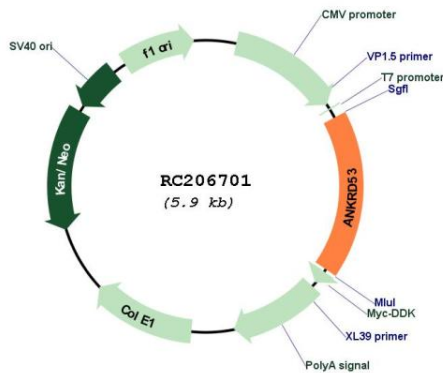
UniProt ID: [Q8N9V6](#)

Cytogenetics: 2p13.3

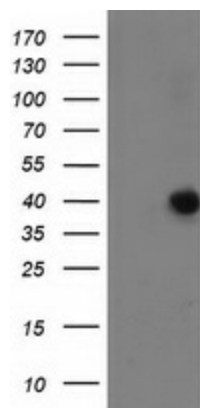
MW: 38.2 kDa

Gene Summary: Required for normal progression through mitosis. Involved in chromosome alignment and cytokinesis via regulation of microtubules polymerization.[UniProtKB/Swiss-Prot Function]

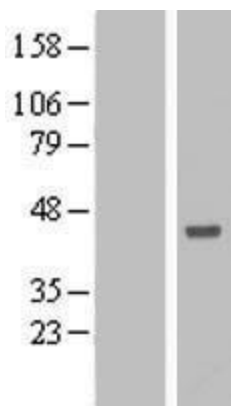
Product images:



Circular map for RC206701



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANKRD53 (Cat# RC206701, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANKRD53(Cat# [TA502601]). Positive lysates [LY410969] (100ug) and [LC410969] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY410969]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206701 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).