

Product datasheet for **RC204384**

ANKRA2 (NM_023039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRA2 (NM_023039) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKRA2
Synonyms:	ANKRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204384 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATACATCAACAAATCTGGATATTGGAGCCCAGCTTATCGTGAAGAGTGTCACAGCACTTATAGCC
TAACTGGCATGCCAGACATTAATAAGAACATCCACTGGACCCAAATTCAGAAGAAGGGTCAGCTCAGGG
TGTTGCCATGGGAATGAAATTCATATTGCCTAACCGATTTGATATGAATGTGTCTCGATTTGTGAAG
TCCTTAAATGAAGAAGATAGTAAAAATATCAAGATCAGGTTAACTCTGACCTGGAGGTGGCATCTGTCC
TATTTAAAGCTGAATGCAATATCCATACATCTCCTTCTCCGGGAATTCAGTAAGGCATGTCTACACCCC
CTCTACAACAAAGCATTCTCACCATAAAACAGTCAACCACTTTAACCAACAAACACAGAGGAAATGAG
GTCTCTACCACACCTCTGTTAGCAAATCTTTGTCTGTTCAACAGTTGGCTGCTCAGGGAGAGATGCTCT
ATCTGGCTACTCGTATCGAACAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACTCCTCTGAT
GTGGGCTGCAGCACACGGGCAAAATAGCTGTGGTAGAGTTCCTACTTCAGAATGGTGTGATCCCCAACTT
TTAGGAAAAGGTGAGAAAAGTGCAGTGTGCTGGCCTGTAGTAAAGGCTACACAGATATTGTCAAATGC
TGCTTGATTGTGGAGTTGATGTAATGAATATGATTGGAATGGAGGAACACCTCTGCTTTATGCTGTACA
TGAAAATCATGTGAAATGTGTAAGATGCTCTTAGAAAAGTGGGGCTGATCCAACAATTGAACTGACTCT
GGATATAATTCTATGGATCTAGCTGTAGCCCTAGGCTATAGAAGTGTTCACAGGTTATTGAGTCACATT
TGTTGAAGCTGCTTCAAATATCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204384 protein sequence
Red=Cloning site Green=Tags(s)

MDTSTNLDIGAQLIVEECPSTYSLTGMPDIKIEHPLDPNSEEGSAQGVAMGMKFILPNRFDNMVCSRFVK
 SLNEEDSKNIQDQVNSDLEVASVLFKAECNIHTSPSPGIQVRHVYTPSTTKHFSPKQSTLTKNHRGNE
 VSTTPLLANSLSVHQLAAQGEMLYLATRIEQENVINHTDEEGFTPLMWWAAHGQIAVVEFLLQNGADPQL
 LGKGRESALSLACSKGYTDIVKMLLDGCVDVNEYDWNNGTPLL YAVHGNHVKCVKMLLESADPTIETDS
 GYNSMDLAVALGYRSVQQVIESHLLKLLQNIKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6311_f07.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_023039

ORF Size: 939 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_023039.5](#)

RefSeq Size: 2198 bp

RefSeq ORF: 942 bp

Locus ID: 57763

UniProt ID: [Q9H9E1](#)

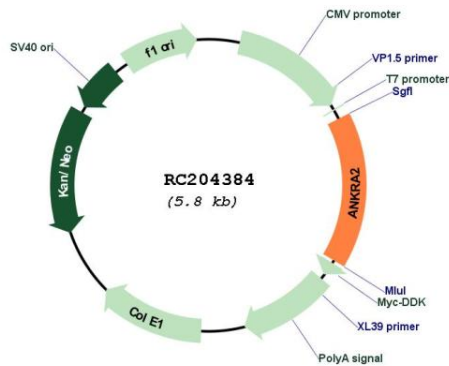
Cytogenetics: 5q13.2

Domains: ANK

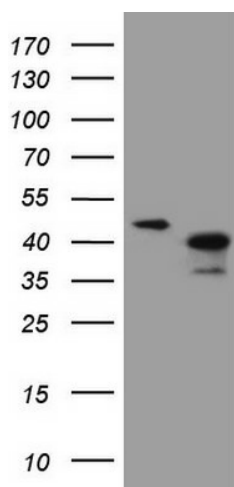
MW: 34.3 kDa

Gene Summary: May regulate the interaction between the 3M complex and the histone deacetylases HDAC4 and HDAC5 (PubMed:25752541). May also regulate LRP2/megalin (By similarity). [UniProtKB/Swiss-Prot Function]

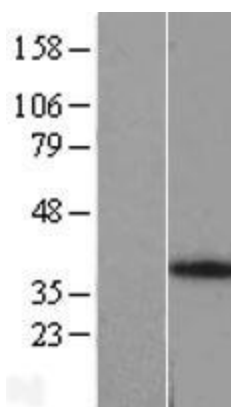
Product images:



Circular map for RC204384



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANKRA2 (Cat# RC204384, 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-ANKRA2 (Cat# [TA808378])(1:2000). Positive lysates [LY411499] (100ug) and [LC411499] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411499]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204384 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).