

Product datasheet for **MR218864**

Ankra2 (NM_023472) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ankra2 (NM_023472) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ankra2
Synonyms: 1110004M18Rik; Ankra
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218864 representing NM_023472
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTACATCTGCAAATCTGGACATTGGGGCCAGCTGATCGTGGAAAGAGTGTCACGAGCTATATCT
CTGGGATGCCAGACATCAAGCTAGAGCACCAGCTAGACCCAAACCCAGATGAAGGAGCAGCCAGGGCGT
CGCCATGGGGATGAAATTCATATTGCCAAACCGATTTGATATGAACGTGTGTTCTCGATTCTGGAAGTCC
TTAAATGAAGAGGATAGTAAAAATATCAAGATCAAGTAACTCTGACCTGGAGGTGGCATCTGTCTTAT
TTAAAGCTGAGTGAATATCCATACATCTCTTCTCTGGAATCAAGTAAGGCATGTCTACACACCATC
TACAACAAAACATTTCTACCCATAAAAACAGTCAACTACTTTAACCAACAAGCACAGGGAAACGAGGTC
TCTACCACACCTCTGTTAGCAAATTTCTGTCTGCTCACCAGTTGGCAGCCAGGGAGAGATGCTCTACC
TGGCTACTCGTATTGAACAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACCCCTGATGTG
GGCTGCGGCACATGGGCAAATAGCTGTGGTAGAGTTCTTCTTCAGAATGGTGCAGATCCCAGCTTCTA
GGAAAAGGTGAGAAAGTGTCTGTCTTGCCTGTAGCAAGGGCTACACAGACATTGTCAAATGCTGC
TTGACTGTGGAGTTGACGTCAATGAATATGACTGGAACGGAGGGACACCTTTGCTTTACGCTGTCCATGG
GAACACGTGAAGTGCCTGAAGATGCTGTTGAAAATGGAGCTGACCCAACAATTGAAACAGACTCTGCC
TATAATTTCTATGGACCTAGCTGTAGCTTTGGGCTACAGAGGTGTCCAACAGGCCATCGAGTCCCATCTGC
TGAACCTCTTCAGAACATCAGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218864 representing NM_023472
 Red=Cloning site Green=Tags(s)

MATSANLDIGAQLIVEECPSSYISGMPDIKLEHQLDPNPDEGAAQGVAMGMKFIIPNRFDMNVCSRFBVKS
 LNEEDSKNIQDQVNSDLEVASVLFKAECNIHTSPSPGIQVRHVYTPSTTKHFSPKIQSTTLTNKHRGNEV
 STTPLLANSLSAHQAAQGEMLYLATRIEQENVINHTDEEGFTPLMMAAAHGQIAVVEFLLQNGADPQLL
 GKGRESALSLACSKGYTDIVKMLLDGVDVNEYDWNNGGTPLLAVHGNHVKCVKMLLENGADPTIETDSSG
 YNSMDLAVALGYRGVQQAIESHLLKLLQNIRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023472

ORF Size: 936 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_023472.2](#), [NP_075961.1](#)

RefSeq Size: 1774 bp

RefSeq ORF: 939 bp

Locus ID: 68558

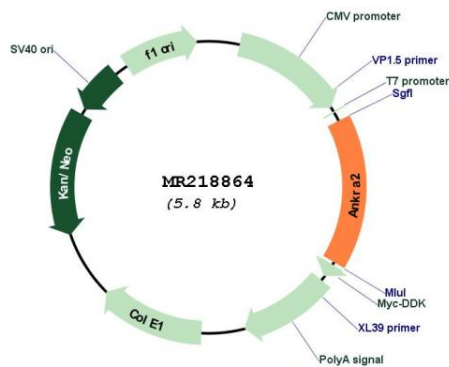
UniProt ID: [Q99PE2](#)

Cytogenetics: 13 D1

MW: 34.5 kDa

Gene Summary: May regulate the interaction between the 3M complex and the histone deacetylases HDAC4 and HDAC5 (By similarity). May also regulate LRP2/megalin (PubMed:11095640).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218864