

## Product datasheet for MR229152

### Ankra2 (NM\_001271389) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ankra2 (NM_001271389) 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:	>MR229152 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTACATCTGCAAATCTGGACATTGGGGCCAGCTGATCGTGGAAAGAGTGTCACGAGCTATATCT  
CTGGGATGCCAGACATCAAGCTAGAGCACCAGCTAGACCCAAACCCAGATGAAGGAGCAGCCAGGGCGT  
CGCCATGGGGATGAAATTCATATTGCCAAACCGATTTGATATGAACGTGTGTTCTCGATTCTGAAAGTCC  
TTAAATGAAGAGGATAGTAAAAATATTCAAGATCAAGTAACTCTGACCTGGAGGTGGCATCTGTCTTAT  
TTAAAGCTGAGTGAATATCCATACATCTCCTTCTCCTGGAATTCAGTAAGGCATGTCTACACACCATC  
TACAACAAAACATTTCTACCCATAAAAACAGTCAACTACTTTAACCAACAAGCACAGGGGAAACGAGGTC  
TCTACCACACCTCTGTTAGCAAATTTCTGTCTGCTCACCAGTTGGCAGCCAGGGAGAGATGCTCTACC  
TGGCTACTCGTATTGAACAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACCCCTGATGTG  
GGCTGCGGCACATGGGCAATAGCTGTGGTAGAGTTCTTCTTCAGAATGGTGCAGATCCCAGCTTCTA  
GGAAAAGGTGAGAAAGTGTCTGTCTTGCCTGTAGCAAGGGCTACACAGACATTGTCAAATGCTGC  
TTGACTGTGGAGTTGACGTCAATGAATATGACTGGAACGGAGGGACACCTTTGCTTTACGCTGTCCATGG  
GAACACGTGAAGTGCCTGAAGATGCTGTTGGAAAATGGAGCTGACCCAACAATTGAAACAGACTCTGCC  
TATAATTTCTATGGACCTAGCTGTAGCTTTGGGCTACAGAGGTGCTCTGATTATATGCTTGTACAGATGT  
CTTCAGGATTTTCAGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229152 protein sequence  
Red=Cloning site Green=Tags(s)

MATSANLDIGAQLIVEECPSSYISGMPDIKLEHQLDPNPDEGAAQGVAMGMKFI LPNRFDMNVCSR FVKS  
 LNEEDSKNIQDQVNSDLEVASVLFKAECNIHTSPSPGIQVRHVYTPSTTKHFSP I KQSTTLTNKHRGNEV  
 STTPLLANSLSAHQLAAQGEMLYLATRIEQENVINHTDEEGFTPLMMAAAHGQIAVVEFLLQNGADPQLL  
 GKGRESALSLACSKGYTDIVKMLLD CGVDVNEYDWNNGGTPLLYAVHGNHVKCVKMLLENGADPTIETDSG  
 YNSMDLAVALGYRGALIIICLSQMSSGSFSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001271389

**ORF Size:** 930 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\\_001271389.1](#), [NP\\_001258318.1](#)

**RefSeq Size:** 2215 bp

**RefSeq ORF:** 930 bp

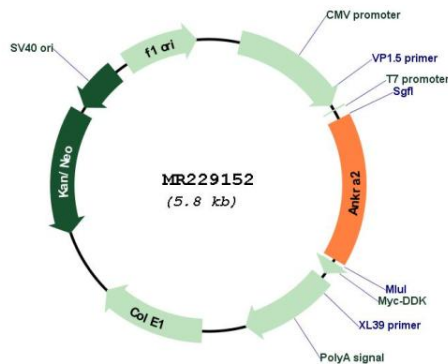
**Locus ID:** 68558

**Cytogenetics:** 13 D1

**MW:** 33.5 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 MR229152