

## Product datasheet for **MR228159**

### Ankra2 (NM\_001271391) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ankra2 (NM\_001271391) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ankra2  
**Synonyms:** 1110004M18Rik; Ankra  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228159 representing NM\_001271391  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTCTACCTGGCTACTCGTATTGAACAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACCC  
CCCTGATGTGGGCTGCGGCACATGGGCAAATAGCTGTGGTAGAGTTCCTTCTTCAGAATGGTGCAGATCC  
CCAGCTTCTAGGAAAAGGTCGAGAAAGTCTGTCTCTTGCCTGTAGCAAGGGCTACACAGACATTGTC  
AAAATGCTGCTTGACTGTGGAGTTGACGTCAATGAATATGACTGGAACGGAGGGACACCTTTGCTTTACG  
CTGTCCATGGGAACACGTGAAGTGCCTGAAGATGCTGTTGGAAAATGGAGCTGACCCAACAATTGAAAC  
AGACTCTGGCTATAATTCTATGGACCTAGCTGTAGCTTTGGGCTACAGAGGTGTCCAACAGGCCATCGAG  
TCCCATCTGCTGAAACTCCTTCAGAACATCAGGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228159 representing NM\_001271391  
Red=Cloning site Green=Tags(s)

MLYLATRIEQENVINHTDEEGFTPLMWAHAHQIAVVEFLLQNGADPQLLGKGRESALSLACSKGYTDIV  
KMLLDGVDVNEYDWNNGTPLL YAVHGNHVKCVKMLLENGADPTIETDSGYNSMDLAVALGYRGVQQAIE  
SHLLKLLQNIRE

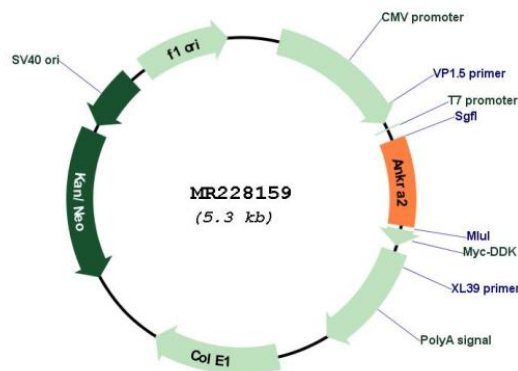
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001271391

**ORF Size:** 456 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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u>NM_001271391.1, NP_001258320.1</u>   |
| <b>RefSeq Size:</b>           | 1555 bp   |
| <b>RefSeq ORF:</b>            | 459 bp  |
| <b>Locus ID:</b>              | 68558   |
| <b>Cytogenetics:</b>          | 13 D1   |
| <b>MW:</b>                    | 17.1 kDa  |
| <b>Gene Summary:</b>          | 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]   |