

## Product datasheet for **MG218864**

### Ankra2 (NM\_023472) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ankra2 (NM_023472) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ankra2
Synonyms:	1110004M18Rik; Ankra
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218864 representing NM_023472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACATCTGCAAATCTGGACATTGGGGCCAGCTGATCGTGAAGAGTGTCCAGCAGCTATATCT  
CTGGGATGCCAGACATCAAGCTAGAGCACCAGCTAGACCCAAACCCAGATGAAGGAGCAGCCAGGGCGT  
CGCCATGGGGATGAAATTCATATTGCCAAACCGATTTGATATGAACGTGTGTTCTCGATTCTGAAAGTCC  
TTAAATGAAGAGGATAGTAAAAATATCAAGATCAAGTAACTCTGACCTGGAGGTGGCATCTGTCTTAT  
TTAAAGCTGAGTGAATATCCATACATCTCTTCTCTGGAATCAAGTAAGGCATGTCTACACACCATC  
TACAACAAAACATTTCTACCCATAAAAACAGTCAACTACTTTAACCAACAAGCACAGGGGAAACGAGGTC  
TCTACCACACCTCTGTTAGCAAATTTCTGTCTGCTCACCAGTTGGCAGCCAGGGAGAGATGCTCTACC  
TGGCTACTCGTATTGAACAAGAAAATGTTATCAATCACACGGATGAAGAAGGATTTACCCCTGATGTG  
GGCTGCGGCACATGGGCAATAGCTGTGGTAGAGTTCTTCTTTCAGAATGGTGCAGATCCCAGCTTCTA  
GGAAAAGGTGAGAAAGTGTCTGTCTTGCCTGTAGCAAGGGCTACACAGACATTGTCAAATGCTGC  
TTGACTGTGGAGTTGACGTCAATGAATATGACTGGAACGGAGGGACACCTTTGCTTTACGCTGTCCATGG  
GAACACGTGAAGTGCCTGAAGATGCTGTTGGAAAATGGAGCTGACCCAACAATTGAAACAGACTCTGCC  
TATAATTCTATGGACCTAGCTGTAGCTTTGGGCTACAGAGGTGTCCAACAGGCCATCGAGTCCCATCTGC  
TGAAACTCTTCAGAACATCAGGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218864 representing NM\_023472  
 Red=Cloning site Green=Tags(s)

MATSANLDIGAQLIVEECPSSYISGMPDIKLEHQLDPNPDEGAAQGVAMGMKFILPNRFDMMVCSRFBKSL  
 LNEEDSKNIQDQVNSDLVAVSLFKAECNIHTSPSPGIQVRHVYTPSTTKHFSPKIQSTTLTNKHRGNEV  
 STTPLANSLSAHLAAQGEMLYLATRIEQENVINHTDEEGFTPLMWWAAAHGQIAVVEFLLQNGADPQLL  
 GKGRESALSLACSKGYTDIVKMLLDGVDVNEYDWNNGGTPLLYAVHGNHVKCVKMLLENGADPTIETDSS  
 YNSMDLAVALGYRGVQQAIESHLLKLLQNIRE

TRTRPLE - GFP Tag - V

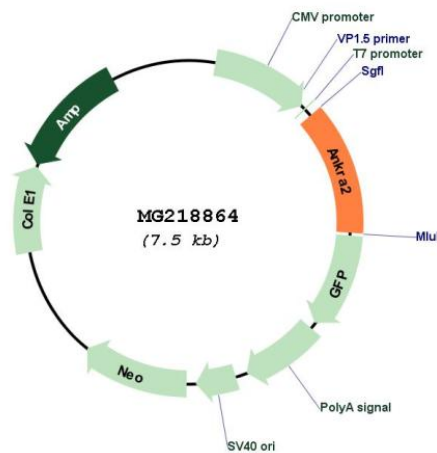
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_023472

**ORF Size:** 936 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_023472.2</a> , <a href="#">NP_075961.1</a>
<b>RefSeq Size:</b>	1774 bp
<b>RefSeq ORF:</b>	939 bp
<b>Locus ID:</b>	68558
<b>UniProt ID:</b>	<a href="#">Q99PE2</a>
<b>Cytogenetics:</b>	13 D1
<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]