

## Product datasheet for MR215584L4

### Ank3 (NM\_170730) Mouse Tagged Lenti ORF Clone

#### Product data:

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                       |
| Product Name:             | Ank3 (NM_170730) Mouse Tagged Lenti ORF Clone                             |
| Tag:                      | mGFP                                                                      |
| Symbol:                   | Ank3                                                                      |
| Synonyms:                 | 2900054D09Rik; AI314020; An; Ank; Ank-3; AnkG; Anky; Ankyrin-3; Ankyrin-G |
| Mammalian Cell Selection: | Puromycin                                                                 |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                                         |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                                |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR215584).            |
| Restriction Sites:        | SgfI-MluI                                                                 |
| Cloning Scheme:           |                                                                           |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.



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**Plasmid Map:**


**ACCN:** NM\_170730

**ORF Size:** 2514 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\\_170730.2](#), [NP\\_733926.2](#)

**RefSeq Size:** 6656 bp

**RefSeq ORF:** 2517 bp

Locus ID: 11735

UniProt ID: [G5E8K5](#)

Cytogenetics: 10 36.1 cM

**Gene Summary:** This gene encodes a member of the ankyrin protein family. Ankyrins link integral membrane proteins to the spectrin-based cytoskeleton. Ankyrin family members share a protein structure which includes three independently folded domains: the N-terminal ankyrin repeat domain, the central spectrin-binding domain, and the C-terminal rod domain. This ankyrin functions as the major ankyrin in the kidney and may play a role in the polarized distribution of many integral membrane proteins to specific subcellular sites. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]