

## Product datasheet for **MC225056**

### Ank3 (NM\_170690) Mouse Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Ank3 (NM_170690) Mouse Untagged Clone   |
| Tag:                 | Tag Free  |
| Symbol:              | Ank3  |
| Synonyms:            | 2900054D09Rik; AI314020; An; Ank; Ank-3; AnkG; Anky; Ankyrin-3; Ankyrin-G       |
| Vector:              | pCMV6-Entry (PS100001)  |
| E. coli Selection:   | Kanamycin (25 ug/mL)  |
| Cell Selection:      | Neomycin  |
| Fully Sequenced ORF: | >MC225056 representing NM_170690<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG  
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGGAAAAGGCCCTTGACTACATCAAAAATGG  
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CTGGGTACACCCCTTCACCTTGC GGCCAGAGAGGGGCATGAGGATGTAGCTGCGTTCTCCTGGATCA  
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 GCTGAGGTGCTTCTGTATGACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAGA AACTTCGAGGAG  
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 CCAATTCTTAAATTTCTCAGAGCTTCAATGTTATTA AAAAAAGTGGGTGACCAGAGACGAAAAGAAATGCCAC  
 AACTGATGCCTTAACTTCGGTCTTAACGAAGATTAACCGGATAGACATTGAACTCTGCTGGAAGGACCA  
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 CGTAGATGAGAGCCAGTTGAAGGACCTGTGTGACAGCGAGTGTGCTCAGTGTGGGCGAGTGTGCCCGGG  
 ATCCCAAACGACGGTCGGCAGGCAGAGCCACTGAGACCGCAGACTAGAAAAGTAGGCATGAGCTCTGAAC  
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 AGGAGAACCTGAAACCAAAACACACGGATGTGGTCGCACTGAGGAACCAAGTGTCCGCCCTCACAGCCTA  
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 ATGAAAAAGATGACCAGGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCA  
 CCAGGTACAGGCCTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAA  
 GAAACCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_170690
- Insert Size:** 5823 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_170690.2](#), [NP\\_733791.2](#)
- RefSeq Size:** 9962 bp
- RefSeq ORF:** 5823 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]

Transcript Variant: This variant (5) lacks an alternate in-frame exon in the coding region, compared to variant 2. This results in a shorter isoform (e), compared to isoform b.