

## Product datasheet for **MC223502**

### Ank3 (NM\_170687) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170687) 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:	>MC223502 representing NM_170687 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTGCCACACAGTGAAGATGCCATCACAGGGGACACTGACAAGTATCTCGGGCCACAGGACCTTA  
AGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTTACGTAGGCTTCAGTCTGGAGCCCGTTCTGCCAG  
CCTCCGCTCCTCAGTTCGGATAGTCTACACCTTGAACAGAAGCTCCTACGCAAGGGACAGCATGATG  
ATAGAGGAACTTCTGGTACCATCCAAGAGCAGCACCTGACGTTACGAGGGAGTTTGATTCTGACTCCC  
TCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGTGAACCTGGTCTCAAGCCCGGTGCATTCTGG  
GTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGGCTCCATGCGAGGAAGCCGCCACCACGGGATGCGG  
ATCATCATCCCTCCGCGAAAGTGTACGGCCCCACCCGCATCACGTGCCGCTGGTAAAGAGACATAAAC  
TGGCAACCCACCCCATGGTGAAGGAGAGGGATTAGCCAGTAGGCTGGTAGAATGGGTCTGCGGG  
GGCACAATTTTAGGCCCGTCAATTGTGGAATCCCTCATTGGGTCCATGAGGGGAAGGAGAGAGAA  
CTTATCGTCTTCGGAGCGAGAACGGAGAGACCTGGAAGAACATCAGTTGACAGTAAAAACGAAGACC  
TCGCGGAGCTTCTCAATGGCATGGATGAAGAATCGACAGCCGGAAGAGTTGGGTACAAAGCCCATCTG  
CAGAATTATCACAAAGGATTTCCCCAGTATTTGCCGTGGTTTCCCGGATTAAGCAGGAAAGCAACCAG  
ATCGGTCTGAGGGTGGGATTCTGAGCAGCACCCGTCGCCCTCGTCCAGGCCTCCTTCCAGAGGGCG  
CCTTAACCAAGAGGATCCGTGTGGTCTCCAGGCTCAGCCGTCGAGAGGAAACGGTAAAAAAATCCT  
TGGGAACAAAGCAACATTTAGCCCAATTGTACGGTAGAGCCGAGGAGAAGGAAGTTCCATAAGCCGATC  
ACCATGACCATTCCGGTCCCGCCCGCTCGGGAGAAGGCGTGTCCAATGGGTACAAGGGGATGCCACGC  
CCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCACCTACCAGCTCAATGGGAAGACATCACAGGAAC  
AACCCCTCTGACGTTTCAAAAGGATTGTGTCTTTACAACCAACGTTTCAGCCAGATTCTGGCTGGCG  
GACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCCTCCAGCTGTACAGAGAGCTGATATCGTTCCTT  
ACATGGCCAAGTTCGTTGTGTTTGC AAAACAAACGACCCGGTGGAGTCCCTCGCTGAGGTGCTTCTGTAT  
GACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAGAATTCGAGGAGGTTGCCAGAGCAAAAGAC  
ATTGAGGTTCTGGAAGGAAAGCCATCTACGTTGATTGCTATGAAACCTGGCCCTCTGACCAAAGGAG



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GACAGCAGCTTGTTTTAACTTTTATTCTTTCAAAGAAAACAGACTGCCATTTTCCATCAAGATCAGAGA  
 CACCAGTCAAGAGCCCTGTGGCCGCTGTCTTTCTGAAGGAGCCAAAGACAACAAAGGGATTACCCCAA  
 ACAGCTGTTTGAACCTTAAATATTACTCTGCCGGCACATAAAAAGGCTGAGAAGGCAGACAGACGCCAGA  
 GCTTTGCCTCCCTAGCTTTACGTAAGCGCTACAGCTACTTGACTGAACCCAGCATGAGTCCGCAGAGTCC  
 TTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGATCACCTGGGACTTAGTTGGACAGAGCTGGCA  
 AGGGAACCTGAATTTTTCACTGGATGAAATCAACCAATACGTGTGAAAAATCCCAATTTTAAATTTCTC  
 AGAGCTTCATGTTATTAATAAAAGTGGTGACCAGAGACGGAAGAATGCCACAACCTGATGCCTTAACTTC  
 GGTCTTAACGAAGATTAACCGGATAGACATTGTAACCTCTGCTGGAAGGACCAATATTGATTATGGGAAT  
 ATTTCAAGGCACCAAGCTTTGCAGATGAAAAAATGTTTTCCATGACCCAGTTGATGGTACCCTTCTCT  
 TTCAAGTGGAGCTGGAGACCCCATGGGGTTGACTGCACACCACCAACCTTTCCAGCAAGATGACCA  
 TTTTAGTGATATCTTAGCATAGAGTCTCCCTTAGGACCCCACTAGACTGAGTGACGGCTGGTGCCT  
 TCCCAGGAAACATAGAGCATCCAACAGGTGGACCTCCAGTGGTAACCGCAGAGGACACTCTTTAGAAG  
 ACAGCAAAATGGACGATTCTGTAACGTAAACAGACCCGGCCGACCCACTGGACGTAGATGAGAGCCAGTT  
 GAAGGACCTGTGCAGAGCGAGTGTCTCAGTGTGGCGAGTGTGCCCGGGATCCCAAACGACGGTCGG  
 CAGGCAGAGCCACTGAGACCGCAGACTAGAAAAGTAGGCATGAGCTCTGAACAGCAGGAAAAAGGAAAT  
 CTGGTCTCTGATGAGGAAGTGACAGAAGACAAGGTCAAATCTCTGTTTGAAGGACATTCAACTTGAAGAAGT  
 AGAGGCTGAGGAGATGACAGAAGACCAGGGCAGGCTATGCTTAAACCGTGTTCAGCGAGCAGAAGCTGGCA  
 ATGCTTCACTTGCAGGTTGGCAGAACGAGACGCCAAGTGAAGCCTAGAGTCCCAGCGCAAGCTCGAA  
 GACTAACTGGTGGGTTACTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCTATTACCTCATA  
 CCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGGAACACACAGCGGAAGTCATTCCAGAAGCAAAG  
 GCAAAACCTACTTCCCGAATCCAAAACGATATAGGGAAACAGAGCATCAAGGAGAACCTGAAACCAA  
 AAACACACGGATGTGGTGCAGTGAAGAACAGTGTGCCCCCTCACAGCCTACCAGAAATCTCTGGAAGA  
 AACCAAGCTTGTATAGAAGACGCACCTAACCCCTGTGTGCCTGTGCGCATGAAAAAGATGACCAGG  
 ACTACGGCTGACGCAAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCACCAGGTGAGAGCCTAAGC  
 AGGGAGAAGGCTATAAGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAAACCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_170687

**Insert Size:**

3285 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\\_170687.3](#), [NP\\_733788.2](#)

RefSeq Size: 7554 bp

RefSeq ORF: 3285 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 (6) utilizes an alternate exon in the 5' coding region and an alternate translation initiation site, compared to variant 2. This results in a shorter isoform (f) and distinct N-terminus, compared to isoform b.