

## Product datasheet for **MC221988**

### Ank3 (NM\_170730) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170730) 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



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**Fully Sequenced ORF:** >MC221988 representing NM\_170730  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGCACCTGA  
 CGTTCACGAGGGAGTTTGATTCTGACTCCCTCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGT  
 GAACCTGGTCTCAAGCCCGGTGCATTCTGGGTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGCTCC  
 ATGCGAGGAAGCCGCCACCACGGGATGCGGATCATCATCCCTCCGCGAAAGTGTACGGCCCCACCCGCA  
 TCACGTGCCGCTGGTAAAGAGACATAAACTGGCCAACCCACCCCATGGTGGAAAGGAGAGGGATTAGC  
 CAGTAGGCTGGTAGAAATGGTCTCGGGGGCACAATTTTAGGCCCGTCATTGTGGAATCCCTCAT  
 TTTGGTCCATGAGGGGAAGGAGAGAACTTATCGTCTTCGGAGCGAGAACGGAGAGACCTGGAAGG  
 AACATCAGTTTGACAGTAAAAACGAAGACCTCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCGACAG  
 CCCGGAAGAGTTGGGTACAAAGCGCATCTGCAGAATTATCACAAAGGATTTCCCCAGTATTTGCCGTG  
 GTTCCCGGATTAAAGCAGGAAAGCAACCAGATCGGTCTGAGGGTGGGATTCTGAGCAGCACCACCGTGC  
 CCCTCGTCCAGGCCTCCTTCCCAGAGGGCGCCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTCAGCC  
 CGTGCCAGAGGAAACGGTAAAAAAATCCTTGGGAACAAAGCAACATTTAGCCCAATTGTACGGTAGAG  
 CCGAGGAGAAGGAAGTCCATAAGCCGATACCATGACCATTCCGGTGCCCCCGCCTCGGGAGAAGGCG  
 TGTCCAATGGGTACAAGGGGATGCCACGCCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCACCTC  
 ACCAGCTCAATGGGAAGACATCACAGGAACAACCCCTCTGACGTTTATAAAGGATTGTGTCTTTTACA  
 ACCAACGTTTACGCCAGATTCTGGCTGGCGGACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCCTCCC  
 AGCTGTACAGAGAGCTGATATGCGTCCCTACATGGCCAAGTTCGTTGTGTTTCCAAAAACAAAGACCC  
 GGTGGAGTCCCTCGCTGAGGTGCTTCTGTATGACAGACGACAGGGTGGACAAAACCCCTGGAGCAGCAGGAG  
 AACTTCGAGGAGGTTGCCAGAAGCAAAGACATTGAGGTTCTGGAAGGAAAGCCCTCTACGTTGATTGCT  
 ATGAAACCTGGCCCTCTGACCAAGGAGGACAGCAGCTTGTTTTAACTTTTATTCTTTCAAAGAAAA  
 CAGACTGCCATTTTCCATCAAGATCAGAGACACCAGTCAAGAGCCCTGTGGCCGCTGTCTTTCTGAAG  
 GAGCCAAAGACAACAAAGGGATTACCCCAACAGCTGTTTGAACCTTAAATTAATCTGCGCCGACATA  
 AAAAGGCTGAGAAGGCAGACAGACGCCAGAGCTTTGCCTCCCTAGCTTTACGTAAGCGCTACAGCTACTT  
 GACTGAACCCAGCATGAGTCCGAGAGTCTTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGAT  
 CACCTGGGACTTAGTTGGACAGAGCTGGCAAGGGAAGTGAATTTTTCAGTGGATGAAATCAACCAATAC  
 GTGTGGAATAATCCAATTTTAAATTTCTCAGAGCTTCATGTTATTAATAAAGTGGGTGACCAGAGACGG  
 AAAGAATGCCACAACATGATGCCTTAACTTCGGTCTTAACGAAGATTAACCGGATAGACATTGTAACCTCTG  
 CTGGAAGGACCAATATTTGATTATGGGAATATTTAGGCACCAGAAGCTTTGAGATGAAAAAATGTTT  
 TCCATGACCCAGTTGATGGTTGGCAGAACGAGACGCCAAGTGGAAAGCCTAGAGTCCCCAGCGCAAGCTCG  
 AAGACTAACTGGTGGGTTACTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCTATTACCTCA  
 TACCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGGAAACCACACAGCGGAAGTCATTCCAGAAGCAA  
 AGGCAAAACCCCTACTTCCCGGAATCCAAAACGATATAGGGAAACAGAGCATCAAGGAGAACCCTGAAACC  
 AAAAACACACGGATGTGGTGCAGTGGGAACCAAGTGTGCGCCCTCACAGCCTACCAGAAATCTCTGGAA  
 GAAACCAGCAAGCTTGTATAGAAGACGCACCTAAACCCGTGTGCTCTGCGCATGAAAAAGATGACCA  
 GGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGTCCACCAGGTCAGAGCCTAA  
 GCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACCCACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_170730  
**Insert Size:** 2517 bp

<b>OTI Disclaimer:</b>	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).
<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_170730.2</a> , <a href="#">NP_733926.2</a>
<b>RefSeq Size:</b>	6656 bp
<b>RefSeq ORF:</b>	2517 bp
<b>Locus ID:</b>	11735
<b>UniProt ID:</b>	<a href="#">G5E8K5</a>
<b>Cytogenetics:</b>	10 36.1 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (9) lacks an in-frame segment in the 5' coding region and an in-frame segment in the 3' coding region, compared to variant 2. This results in a shorter isoform (i), compared to isoform b.</p>