

## Product datasheet for **MC224915**

### Ank3 (NM\_170688) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170688) 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:	>MC224915 representing NM_170688 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG  
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGGAAAAGGCCCTTGACTACATCAAAAAATGG  
AGTGGACGTCAACATCTGTAACCAAGATGGATTGAATGCACTCCATCTTGCTTCCAAAGAAGGCCATGTG  
GAAGTGGTCTCTGAGCTGCTGCAGAGGGAAGCCAATGTTGATGCCGCCACAAGAAAGGAAACACGGCCT  
TACACATCGCATCTTTGGCTGGCAAGCGGAAGTGGTCAAGGTCTTGGTTACGAACGGAGCGAATGTCAA  
CGCACAATCTCAGAATGGCTTACACCATTGTATATGGCAGCCCAGGAGAACCACCTGGAAGTCGTCAGG  
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TGCAACAAGGTCATGACCAAGTCGTGTCCTCTGCTCGAGAACGACACGAAGGGAAAAGTGCSCCTCCC  
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CCACGTTGCTGTTAAACCGAGCGGCTGCTGGACTTCAACGCACGGAATGACATCACTCCCTTACACGT  
TGCTCGAAGCGAGGAAATGCAATATGGTGAAGCTATTGCTGGACCGGGGTGCGAAGATCGATGCCAAG  
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CTGACTGCCCTCCATGTGGCTGCCACTGCGGCCATTACAAAGTTGCCAAGGTTCTTTTGGATAAGAAAAG  
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TCTGGTCCAAGATGGGGCTCAGGTAGAAGCAAAAGCTAAGGATGACCAGACTCCACTCCACATCTCAGCC  
CGACTTGGGAAAGCTGACATAGTGCAACAACCTGTTACAGCAAGGAGCATCCCCCAATGCAGCAACAACCT



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CTGGGTACACCCCTTACCTTGC GGCCAGAGAGGGGCATGAGGATGTAGCTGCGTTCCTCCTGGATCA  
 TGGAGCATCTTTATCCATAACAACAAAGAAGGGATTACCCCTCTGCACGTGGCAGCCAAATACGGAAAG  
 CTTGAAGTCGCAAGTCTCCTGCTGCAGAAGAGTGCCTCTCCCGATGCCGAGGGAAGAGCGGGCTAACTC  
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 CCACGCAGCCGCAAGAATGGCTATACACCACTGCACATCGCGGCCAAGAAGAACCAGATGGACATAGCC  
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 AGGAGAGAGAACTTATCGTCCTTCGAGCGGAGAACGGAGAGACCTGGAAGGAACATCAGTTTGACAGTAA  
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 ATCACAGGAACAACCCCTCTGACGTTTCAAAAGGATTGTGTGCTTTTACAACCAACGTTTCAGCCAGAT  
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 TGCTTCTGTATGACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAGAACTTCGAGGAGGTTGCCA  
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 GACCAAGGAGGACAGCAGCTTGTTTTAACTTTTATTCTTTCAAAGAAAACAGACTGCCATTTCCATC  
 AAGATCAGAGACACCAGTCAAGAGCCCTGTGCCGCTGTCTTTCTGAAGGACCAAGACAACAAAGG  
 GATTACCCCAAACAGCTGTTGCAACTTAAATATTACTCTGCCGGCACATAAAAAGGCTGAGAAGGCAGA  
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 CCGCAGAGTCTTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGATCACCTGGGACTTAGTTGGA  
 CAGAGCTGGCAAGGGAAGTGAATTTTTAGTGGATGAAATCAACCAAAATACGTGTGGAATAATCCAAATC  
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 TTGGCAGAACGAGACGCCAAGTGAAGCCTAGAGTCCCCAGCGCAAGCTCGAAGACTAAGTGGTGGTTA  
 CTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCTATTACCTCATACCTCACGGGAGAACCTG  
 GGAAGATCGAAGCAAATGGAACACACAGCGAAGTCAATCCAGAAGCAAAGGCAAAACCTACTTCCC  
 GGAATCCCAAAACGATATAGGGAACAGAGCATCAAGGAGAACCTGAAACCAAAAACACACGGATGTGGT  
 CGCACTGAGGAACAGTGTGCCCCCTCACAGCCTACCAGAAAATCTCTGGAAGAAACCAGCAAGCTTGTC  
 TAGAAGACGCACCTAACCCCTGTGTGCCTGTGGCATGAAAAGATGACCAGGACTACGGCTGACGGCAA

AGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCACCAGGTCAGAGCCTAAGCAGGGAGAAGGCTATAAG  
GTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_170688
<b>Insert Size:</b>	5298 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>	<u><a href="#">NM_170688.2</a></u> , <u><a href="#">NP_733789.1</a></u>
<b>RefSeq Size:</b>	9437 bp
<b>RefSeq ORF:</b>	5298 bp
<b>Locus ID:</b>	11735
<b>UniProt ID:</b>	<u><a href="#">G5E8K5</a></u>
<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 (3) lacks an alternate in-frame segment in the coding region, compared to variant 2. This results in a shorter isoform (c), compared to isoform b.</p>