

## Product datasheet for **MR215182**

### Ank3 (NM\_009670) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_009670) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>MR215182 representing NM\_009670  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTTTGCCACACAGTGAAGATGCCATCACAGGGGACACTGACAAGTATCTCGGGCCACAGGACCTTA  
AGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTTACGTAGGCTTCACTTGGAGCCCGTTCTGCCAG  
CCTCCGCTCCTTCACTCGGATAGGTCCTACACCTTGAACAGAAGCTCCTACGCAAGGGACAGCATGATG  
ATAGAGGAACTTCTGGTACCATCCAAGAGCAGCACCTGACGTTACAGAGGGAGTTTATTCTGACTCCC  
TCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGTGAACCTGGTCTCAAGCCCGTGCACTTCTGG  
GTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGGCTCCATGCGAGGAAGCCGCCACCACGGGATGCGG  
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TGGCCAACCCACCCCATGGTGAAGGAGAGGGATTAGCCAGTAGGCTGGTGAATGGTCTGCGGG  
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CTTATCGTCCTTCGGAGCGAGAACGGAGAGACCTGGAAGGAACATCAGTTTGACAGTAAAAACGAAGACC  
TCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCGACAGCCCGAAGAGTTGGGTACAAAAGCGCATCTG  
CAGAATTATCACAAGGATTTCCCCAGTATTTGCCGTGGTTTCCCGGATTAAGCAGGAAAACCAAGCAG  
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CCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTCAGCCCGTCCAGAGGAAACGGTAAAAAATCCT  
TGGGAACAAAGCAACATTTAGCCCAATTGTACGGTAGAGCCGAGGAGAAGGAAGTTCCATAAGCCGATC  
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CCAACCTGCGGCTCCTCTGCAGCATCACAGGAGCACCTCACAGCTCAATGGGAAGACATCACAGGA  
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TTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGATCACCTGGGACTTAGTTGGACAGAGCTGGCA  
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ACCTCCAGGAAGAAGAGGGGTCCACCAGGTGAGAGCCTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAA  
GAAGGAAATCCGGAACGTGGAGAAGAAAACCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215182 representing NM\_009670  
 Red=Cloning site Green=Tags(s)

MALPHSEDAITGDTDKYLGPDQLKELGDDSLPAEGYVGFSLGARSASLRSFSSDRSYTLNRSSYARDSMM  
 IEELLVPSKEQHLTFTREFDSDSLRHYSWAADTLDNVNLVSSPVHSGFLVSFMDARGGSMRGRHHGMR  
 I IIPPRKCTAPTRITCRVLKRHLKLANPPPMVEGEGLASRLVEMGPAGAQLGPVIVEIPHFGSMRGKERE  
 LIVLRSENGETWKEHQFDSKNEDLAELNGMDEELDSPEELGTRKICRIITKDFPQYFVAVSRIKQESNQ  
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 IEVLEGGPIYVDCYGNLAPLTKGGQQLVFNFYFKENRPF SIKIRDTSQEPCGRLSFLKEPKTTKGLPQ  
 TAVCNLITLPAHKKAEKADRRQSFASLALRKRYSYL TEPMSQPSPCERTDIRMAIVADHLGLSWTELA  
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 ISGTRSFADENNVFHDVPDVGWQNETPSGSLESPAQARRLTGGLDRLDSSDQARDSITSYLTGEPGKIE  
 ANGNHTAEVIPEAKAKPYFPESQNDIGKQSIKENLKPETHGCGRTEEPVSPLTAYQKSLEETSKLVIDEA  
 PKPCVPVGMKKMTRTTADGKARLNLQEEEGSTRSEPKQEGYKVKTKKEIRNVEKKT

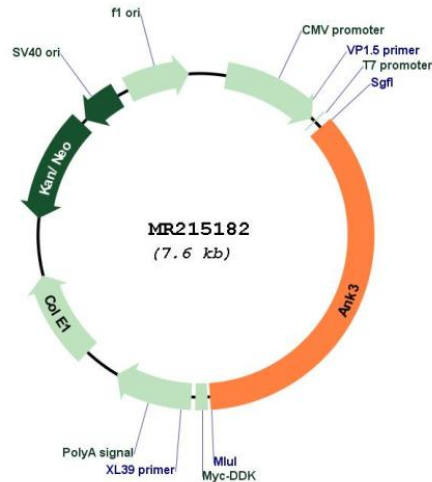
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_009670

**ORF Size:** 2694 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\\_009670.4](#), [NP\\_033800.2](#)

**RefSeq Size:** 6966 bp

**RefSeq ORF:** 2697 bp

**Locus ID:** 11735

**UniProt ID:** [G5E8K5](#)

**Cytogenetics:** 10 36.1 cM

**MW:** 100.2 kDa

**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]