

## Product datasheet for **MG212072**

### Ank3 (BC021657) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (BC021657) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ank3
Synonyms:	MGC14049, AnkG, Ankyrin-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212072 representing BC021657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG  
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGGAAAAGGCCCTTGACTACATCAAAAATGG  
AGTGGACGTCAACATCTGTAACCAAGATGGATTGAATGCACTCCATCTTGCTTCAAAGAAGGCCATGTG  
GAAGTGGTCTCTGAGCTGCTGCAGAGGGAAGCCAATGTTGATGCCGCCACAAAGAAAGGAAACACGGCCT  
TACACATCGCATCTTTGGCTGGCAAGCGGAAGTGGTCAAGGCTTGGTTACGAACGGAGCGAATGTCAA  
CGCACAATCTCAGAAATGGCTTACACCATTGTATATGGCAGCCCAGGAGAACCACCTGGAAGTCGTCAAG  
TTCTTTCTGGACAATGGCGCCAGCCAAAGCCTGGCCACAGAGGACGGCTTACGCCATTGGCCGTGGCTC  
TGCAACAAGGTCAATGACCAAGTCGTGTCCTCCTGCTCGAGAACGACACGAAGGGAAAAAGTGCAGCTCCC  
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ACCAGGACGGTCTGACTCCGTTGCACTGTGGGGCGAGAAGTGGCCATGAGCAGGTGGTAGAGATGTTGC  
TTGACAGATCCGCCCCATCCTTTCAAAAACCAAGAATGGATTGTCGCCACTGCACATGGCCACACAAGG  
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CTGACTGCCCTCCATGTGGCTGCCACTGCGGCCATTACAAAGTTGCCAAGGTTCTTTGGATAAGAAAAG  
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TCTGGTCCAAGATGGGGCTCAGGTAGAAGCAAAAGCTAAGGATGACCAGACTCCACTCCACATCTCAGCC



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CGACTTGGGAAAGCTGACATAGTGCAACAACCTGTTACAGCAAGGAGCATCCCCAATGCAGCAACAACCT  
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 TCCCAGCTGTACAGAGAGCTGATATGCGTTCCTACATGGCCAAGTTCGTTGTGTTTGC AAAACAAACG  
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 GCAAAGGCAAAAACCTACTTCCCGGAATCCCAAACGATATAGGGAAACAGAGCATCAAGGAGAACCTGA  
 AACCAAAAACACACGGATGTGGTGCACCTGAGGAACCAAGTGTGCGCCCTCACAGCCTACCAGAAATCTCT  
 GGAAGAAACCAGCAAGCTTGTCATAGAAGACGCACCTAAACCTGTGTGCTGTGCGCATGAAAAAGATG  
 ACCAGGACTACGGCTGACGGCAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCACCAGGTGACAGC

CTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG212072 representing BC021657

Red=Cloning site Green=Tags(s)

MSEEPKEKPAKPAHRKRKGGKSDANASYLRAARAGHLEKALDYIKNGVDVNICNQNLNALHLASKEGHV  
 EVVSELLQREANVDAATKKGNTALHIASLAGQAEVVKVLTNGANVNAQSQNGFTPLYMAAQENHLEVVR  
 FLLDNGASQSLATEDGFTPLAVALQQGHDQVVSLLLENDTKGKVRPALHIAARKDDTKAAALLLQNDTN  
 ADVESKSGFTPLHIAAHYGNINVATLLLNRAAAADFRTARNDITPLHVASKRGNANMVKLLLDRGAKIDAK  
 TRDGLTPLHCGARGSGHEQVVEMLLDRSAPILSKTKNGLSPLHMATQGDHLNVCVQLLLQHNVPVDDVTNDY  
 LTALHVAACHGHYKVAKVLDDKKASPNKALNGFTPLHIAACKNRIKRVMEMLLKHGASIQAVTESGLTPI  
 HVAAFMGHVNIIVSQLMHHGASPNTTNVRGETALHMAARSGQAEVVRYLVQDGAQVEAKAKDDQTPHISA  
 RLGKADIVQQLLQQGASPNAATTSGYTPLHLAAREGHEDVAAFLLDHGASLSITTKKGFPLHVAAYGK  
 LEVASLLLQKSASPDAAGKSGLTPLHVAHYDNQKVALLLDQGASPHAAKNGYTPLHIAAKKNQMDIA  
 TSLLEYGADANAVTRQGIASVHLAAQEGHVDMSLLLNRANVNLNKSGLTPLHLAAQEDRVNVAEVLV  
 NQGAHVDAQTKMGYTPPHVGHYGNIKIVNLLQHSKVNKTKNGYALHQAQQGHITHIINVLLQNNNA  
 SPNELTVNGNTALAIARRLGYISVVDTLKVVTEEIMTTTTITEKHKMNVPETMNEVLDMSDDEGEDAITG  
 DTDKYLGPQDLKELGDDSLPAEGYVGFSLGARSASLSRFSDDRSYTLNRSSYARDSMMIEELLVPSKEQH  
 LFTTREFDSDSLRHYSWAADTLDNVNLVSSPVHSGFLVSFMDVARGGSMRGRHGMRIIIPPRKCTAPT  
 RITCRLVKRHLKANPPPVEGEGLASRLVEMGPAQAFLGPVIVEIPHFSGMRGKERELIVLRSENGETW  
 KEHQFDSKNEDLAELLLNGMDEELDSPEELGTRICRIITKDFPQYFAVVSRIKQESNQIGPEGGILSST  
 VPLVQASFPREGALTKRIRVGLQAQVPVEETVKKILGNKATFSPIVTVPRRRKFKHPITMTIPVPPPSGE  
 GVSNGYKGDATPNLRLCSITGGTSPAQWEDITGTTPLTFIKDCVSFTTNVSARFWLADCHQVLETYVGLA  
 SQLYRELICVPYMAKFFVFAKTNDPVESSLRFCMTDDRVDKTLQEQNFEEVARSKDIEVLEGGPIYVD  
 CYGNLAPLTKGGQQLVFNFYFSENRLPFSIKIRDTSQEPGRLSFLKEPKTTKGLPQTAVCNLNLTLPA  
 HKKAEKADRRQSFASLALRKRYSYLTPSMSQSPCERDIRMIVADHLGLSWTELARELNFVDEINQ  
 IRVENPNLSISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENN  
 VFHDPVDGWQNETPSGSLESPAQARRLTGGLLDRLDSSDQARDSITSYLTGEPGKIEANGNHTAEVIPE  
 AKAKPYFPESQNDIGKQSIKENLKPETHGCRTEEPVSPLTAYQKSLLEETSKLVIEDAPKPCVPVGMKKM  
 TRTTADGKARLNLQEEEGSTRSEPKQEGYKVKTKKEIRNVEKKTTH

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



**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:** [BC021657](#), [AAH21657](#)

**RefSeq Size:** 6420 bp

**RefSeq ORF:** 5180 bp

**Locus ID:** 11735

**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]