

## Product datasheet for **MG215584**

### Ank3 (NM\_170730) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170730) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ank3
Synonyms:	2900054D09Rik; AI314020; An; Ank; Ank-3; AnkG; Anky; Ankyrin-3; Ankyrin-G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215584 representing NM\_170730  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGCACCTGA  
 CGTTCACGAGGGAGTTTGATTCTGACTCCCTCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGT  
 GAACCTGGTCTCAAGCCCGGTGCATTCTGGGTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGCTCC  
 ATGCGAGGAAGCCGCCACCACGGGATGCGGATCATCATCCCTCCGCGAAAGTGTACGGCCCCACCCGCA  
 TCACGTGCCGCTGGTAAAGAGACATAAACTGGCCAACCCACCCCATGGTGGAAAGGAGAGGGATTAGC  
 CAGTAGGCTGGTAGAAATGGTCTCGGGGGCACAATTTTAGGCCCGTCATTGTGAAATCCCTCAT  
 TTTGGTCCATGAGGGGAAGGAGAGAACTTATCGTCTTCGGAGCGAGAACGGAGAGACCTGGAAGG  
 AACATCAGTTTGACAGTAAAAACGAAGACCTCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCGACAG  
 CCCGGAAGAGTTGGGTACAAAGCGCATCTGCAGAATTATCACAAAGGATTTCCCCAGTATTTGCCGTG  
 GTTCCCGGATTAAAGCAGGAAAGCAACCAGATCGGTCTGAGGGTGGGATTCTGAGCAGCACCACCGTGC  
 CCCTCGTCCAGGCCTCCTTCCCAGAGGGCGCCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTCAGCC  
 CGTGCCAGAGGAAACGGTAAAAAATCCTTGGGAACAAAGCAACATTTAGCCCAATTGTACGGTAGAG  
 CCGAGGAGAAGGAAGTTCATAAGCCGATCACCATGACCATTCCGGTGCCCCCGCCTCGGGAGAAGGCG  
 TGTCCAATGGGTACAAGGGGATGCCACGCCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCACCTC  
 ACCAGCTCAATGGGAAGACATCACAGGAACAACCCCTCTGACGTTTATAAAGGATTGTGTCTTTTACA  
 ACCAACGTTTACGCCAGATTCTGGCTGGCGGACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCCTCCC  
 AGCTGTACAGAGAGCTGATATCGTTCCTACATGGCCAAGTTCGTTGTGTTTCCAAAAACAAAGACCC  
 GGTGGATCCTCGCTGAGGTGCTTCTGTATGACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAG  
 AACTTCGAGGAGGTTGCCAGAAGCAAAGACATTGAGGTTCTGGAAGGAAAGCCCTCTACGTTGATTGCT  
 ATGAAACCTGGCCCTCTGACCAAGGAGGACAGCAGCTTGTTTTAACTTTTATTCTTTCAAAGAAAA  
 CAGACTGCCATTTTCCATCAAGATCAGAGACACCAGTCAAGAGCCCTGTGGCCGCTGTCTTTCTGAAG  
 GAGCCAAAGACAACAAAGGATTACCCCAACAGCTGTTTGAACCTAAATATTACTCTGCCGGCACATA  
 AAAAGGCTGAGAAGGCAGACAGACGCCAGAGCTTTCCTCCCTAGCTTACGTAAGCGCTACAGCTACTT  
 GACTGAACCCAGCATGAGTCCGAGAGTCTTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGAT  
 CACCTGGGACTTAGTTGGACAGAGCTGGCAAGGGAAGTGAATTTTTCAGTGGATGAAATCAACCAATAC  
 GTGTGGAAAATCCCAATTTTAAATTTCTCAGAGCTTCATGTTATTAATAAAGTGGGTGACCAGAGACGG  
 AAAGAATGCCACAACATGATGCCTTAACTTCGGTCTTAACGAAGATTAACCGGATAGACATTGTAACCTCTG  
 CTGGAAGGACCAATTTTATTGATTATGGGAATATTTTCAAGCACCAGAAGCTTTGCAGATGAAAAAATGTTT  
 TCCATGACCCAGTTGATGGTTGGCAGAACGAGACGCCAAGTGGAAAGCCTAGAGTCCCCAGCGCAAGCTCG  
 AAGACTAACTGGTGGTTACTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCTATTACCTCA  
 TACCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGGAAACCACACAGCGGAAGTCATTCCAGAAGCAA  
 AGGCAAAACCTACTTCCCGGAATCCAAAACGATATAGGGAAACAGAGCATCAAGGAGAACCTGAAACC  
 AAAACACACGGATGTGGTGCAGTGGGAACCGAGTGTGCGCCCTCACAGCCTACCAGAAATCTCTGGAA  
 GAAACCAGCAAGCTTGTATAGAAGACGCACCTAAACCTGTGTGCTGTGCGCATGAAAAAGATGACCA  
 GGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGTCCACCAGGTCAGAGCCTAA  
 GCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACCCAC

**ACCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >MG215584 representing NM\_170730  
 Red=Cloning site Green=Tags(s)

```
MSEEPKEKPAKPAHRKRKGGKHLTFTREFDSDSLRHYSWAADTLDNVNLVSSPVHSGFLVSFMDARGGS
MRGSRHHGMRIIIPPRKCTAPTRITCRLVKRHKLANPPMVEGGLASRLVEMGPAGAQLGPVIVEIPH
FGSMRGKERELIVLRSENGETWKEHQFDSKNEDLAELNGMDEELDSPEELGTRICRIITKDFPQYFAV
VSRIKQESNQIGPEGGILSSTTVPLVQASFPEGALTKRIRVGLQAQPVPEETVKKILGNKATFSPIVTVE
PRRRKFHKPITMTIPVPPPSGEGVSNYKGDATPNLRLLCSITGGTSPAQWEDITGTTPLTFIKDCVSFT
TNVSARFWLADCHQVLETVGLASQLYRELICVPYMAKFVVFVAKTNDPVESLRCFCMTDDRRVDTLEQQE
NFEEVARSKDIEVLEGPYVDCYGNLAPLTKGGQQLVFNFYFENRPFSEIKIRDTSQEPCGRLSFLK
EPKTTKGLPQTAVCNLNLPAHKKAEKADRRQSFASLALRKRYSYLTPESMSPQSPCERTDIRMAIVAD
HLGLSWTELARELNFSVDEINQIRVENPNLSISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTL
LEGPIFDYGNISGTRSFADENNVFHDVPDVGWQNETPSGSLESPAQARRLTGGLLDRLDSSDQARDSITS
YLTGEPGKIEANGNHTAEVIPEAKAKPYFPESQNDIGKQSIKENLKPETHGCGRTEEPVSPLTAYQKSL
ETSKLVIEDAPKPCVPVGMKKMTRTTADGKARLNLQEEEGSTRSEPKQEGYKVKTKKEIRNVEKKT
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-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:** [NM\\_170730.2](#), [NP\\_733926.2](#)

**RefSeq Size:** 6656 bp

**RefSeq ORF:** 2517 bp

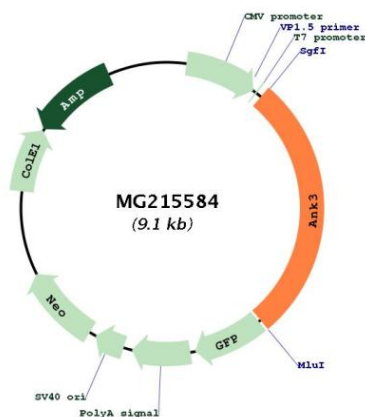
**Locus ID:** 11735

**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]

### Product images:



Circular map for MG215584