

## Product datasheet for **MG215182**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_009670) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MG215182 representing NM\_009670  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTTGCCACACAGTGAAGATGCCATCACAGGGGACACTGACAAGTATCTCGGGCCACAGGACCTTA  
 AGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTTACGTAGGCTTCAGTCTGGAGCCCGTTCTGCCAG  
 CCTCCGCTCCTTCAGTTCGGATAGGTCCTACACCTTGAACAGAAGCTCCTACGCAAGGGACAGCATGATG  
 ATAGAGGAACTTCTGGTACCATCCAAGAGCAGCACCTGACGTTACAGAGGGAGTTTGATTCTGACTCCC  
 TCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGTGAACCTGGTCTCAAGCCCGTGCAATCTGG  
 GTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGGCTCCATGCGAGGAAGCCGCCACCACGGGATGCGG  
 ATCATCATCCCTCCGCGAAAGTGTACGGCCCCACCCGCATCACGTGCCGCTGGTAAAGAGACATAAAC  
 TGGCCAACCCACCCCATGGTGAAGGAGAGGGATTAGCCAGTAGGCTGGTGAATGGTCTGCGGG  
 GGCACAATTTTTAGGCCCGTCATTGTGGAATCCCTCATTTTGGGTCCATGAGGGGAAGGAGAGAGAA  
 CTTATCGTCCTTCGGAGCGAGAACGGAGAGACCTGGAAGGAACATCAGTTTGACAGTAAAAACGAAGACC  
 TCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCGACAGCCCGAAGAGTTGGGTACAAAAGCGCATCTG  
 CAGAATTATCACAAGGATTTCCCCAGTATTTGCCGTGGTTTCCCGGATTAAGCAGGAAAACCAACAG  
 ATCGGTCTGAGGGTGGGATTCTGAGCAGCACCACCGTGGCCCTCGTCCAGGCCTCTTCCAGAGGGCG  
 CCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTCAGCCCGTCCAGAGGAAACGGTAAAAAATCCT  
 TGGGAACAAAGCAACATTTAGCCCAATTGTACGGTAGAGCCGAGGAGAAGGAAGTTCCATAAGCCGATC  
 ACCATGACCATTCCGGTGCCCGCCCTCGGGAGAAGCGGTGTTCAATGGGTACAAGGGGGATGCCACGC  
 CCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCACCTCACAGCTCAATGGGAAGACATCACAGGA  
 AACCCCTGACGTTTATAAAGGATTGTGTCTTTTACAACCAACGTTTCAGCCAGATTCTGGCTGGCG  
 GACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCCTCCAGCTGTACAGAGAGCTGATATGCGTCCCT  
 ACATGGCCAAGTTCGTTGTGTTTGCAAAAACAACGACCCGGTGGAGTCCCTCGTGGAGTCTTCTGTAT  
 GACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAGAAGTTCGAGGAGGTTGCCAGAAGCAAAGAC  
 ATTGAGGTTCTGGAAGGAAAGCCATCTACGTTGATTGCTATGGAACCTGGCCCTCTGACCAAAGGAG  
 GACAGCAGCTTGTTTTTAACTTTTATTCTTTCAAAGAAAACAGACTGCCATTTTCCATCAAGATCAGAGA  
 CACCAGTCAAGAGCCCTGTGGCCGCTGTCTTTCTGAAGGAGCCAAAGACAACAAGGGATTACCCCAA  
 ACAGCTGTTTGCAACTTAAATATTACTCTGCCGCACATAAAAAGGCTGAGAAGGCAGACAGCCAGA  
 GCTTTGCCTCCCTAGCTTACGTAAGCGCTACAGCTACTTGACTGAACCCAGCATGAGTCCGAGAGTCC  
 TTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGATCACCTGGGACTTAGTTGGACAGAGCTGGCA  
 AGGGAAGTGAATTTTTCAGTGGATGAAATCAACCAAAATACGTGTGGAAAATCCCAATTTCTTAATTTCTC  
 AGAGCTTCATGTTATTAAGGAGTGGGTGACCAGAGACGGAAAGAATGCCACAACATGATGCCTTAACTTC  
 GGTCTTAACGAAGATTAACCGGATAGACATTGTAACCTCTGCTGGAAGGACCAATATTTGATTATGGGAAT  
 ATTTACAGGCACCAGAAGCTTGCAGATGAAAACAATGTTTCCATGACCCAGTTGATGGTTGGCAGAACG  
 AGACGCCAAGTGAAGCCTAGAGTCCCCAGCGCAAGCTCGAAGACTAACTGGTGGTTACTGGACCGTCT  
 GGATGACAGCTCTGACCAGGCTCGGATTCTATTACCTCATACTCACGGGAGAACCTGGGAAGATCGAA  
 GCAAAATGGAAACACACAGCGGAAGTCATTCCAGAAGCAAAGGCAAACCCCTACTTCCCGGAATCCCAA  
 ACGATATAGGAAACAGAGCATCAAGGAGAACCTGAAACCAAAAACACACGGATGTGGTCCCACTGAGGA  
 ACCAGTGTGCCCCCTCACAGCCTACCAGAAATCTCTGGAAGAAACAGCAAGCTTGTATAGAAGACGCA  
 CCTAAACCCTGTGTGCCTGTGCGCATGAAAAAGATGACCAGGACTACGGCTGACGGCAAAGCCAGGCTCA  
 ACCTCCAGGAAGAAGAGGGGTCCACCAGGTGAGAGCCTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAA  
 GAAGGAAATCCGGAACGTGGAGAAGAAAACCCAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

Protein Sequence: >MG215182 representing NM\_009670  
 Red=Cloning site Green=Tags(s)

MALPHSEDAITGDTDKYLGPDQLKELGDDSLPAEGYVGFSLGARSASLRSFSSDRSYTLNRSYARDSMM  
 IEELLVPSKEQHLFTTREFDSDSLRHYSWAADTLDNVNLVSSPVHSGFLVSFMDVARGGSMRGRHHGMR  
 IIPPRKCTAPTRITCRLVKRHLKLANPPPMVEGELASRLVEMGPAGAQLGPVIVEIPHFGSMRGKERE  
 LIVLRSENGETWKEHQFDSKNEDLAELNGMDEELDSPEELGTRKICRIITKDFPQYFAVVSRIKQESNQ  
 IGPEGGILSSTTVPLVQASFPEGALTKRIRVGLQAQVPPEETVKKILGNKATFSPIVTVEPRRRKFHKPI  
 TMTIPVPPSPGEGVSNKYGDATPNLRLLCSITGGTSPAQWEDITGTTPLTFIKDCVSFTTNVSARFWLA  
 DCHQVLETVGLASQLYRELICVPYMAKFVVFAKTNDPVESSLRCFCMTDDRVDKTLQEQENFEEVARSKD  
 IEVLEGGPIYVDCYGNLAPLTKGGQQLVFNFYFKENRPFSEIKIRDTSQEPCGRLSFLKEPKTTKGLPQ  
 TAVCNLNLITLPAHKKAEKADRRQSFASLALRKRYSYLTEPSMSPQSPCERTDIRMAIVADHLGLSWTELA  
 RELNFSVDEINQIRVENPNLSISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGN  
 ISGTRSFADENNVFHDVPDVGWQNETPSGSLESPAQARRLTGGLLDRLDSSDQARDSITSYLTGEPGKIE  
 ANGNHTAEVIPEAKAKPYFPESQNDIGKQSIKENLKPETHGCGRTEEPVSPLTAYQKSLEETSKLVIEDA  
 PKPCVPVGMKMTTRTTADGKARLNLQEEEGSTRSEPKQEGYKVKTKKEIRNVEKKTH

TRTRPLE - GFP Tag - V

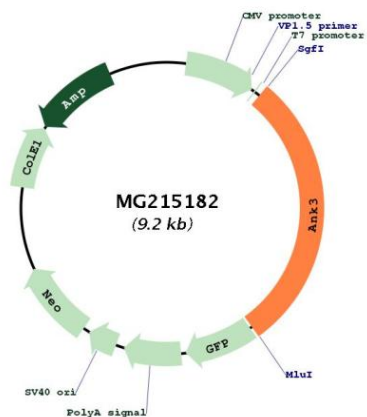
Restriction Sites: SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_009670
<b>ORF Size:</b>	2694 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_009670.4</a> , <a href="#">NP_033800.2</a>
<b>RefSeq Size:</b>	6966 bp
<b>RefSeq ORF:</b>	2697 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>	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 MG215182