

Product datasheet for MR215342

Ank3 (NM_146005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_146005) 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
ORF Nucleotide Sequence:	>MR215342 representing NM_146005 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGAAAAGGCCCTTGACTACATCAAAAATGG
AGTGGACGTCAACATCTGTAACCAAGATGGATTGAATGCACTCCATCTTGCTTCCAAAGAAGGCCATGTG
GAAGTGGTCTCTGAGCTGCTGCAGAGGGAAGCCAATGTTGATGCCGCCACAAAGAAAGGAAACACGGCCT
TACACATCGCATCTTTGGCTGGCAAGCGGAAGTGGTCAAGGTCTTGGTTACGAACGGAGCGAATGTCAA
CGCACAATCTCAGAATGGCTTACACCATTGTATATGGCAGCCCAGGAGAACCACCTGGAAGTCGTCAGG
TTTCTTCTGGACAATGGCGCCAGCCAAAGCCTGGCCACAGAGGACGGCTTACGCCATTGGCCGTGGCTC
TGCAACAAGGTCATGACCAAGTCGTGTCCCTCTGCTCGAGAACGACACGAAGGGAAAAGTGCAGCTCCC
AGCCCTCCACATCGCAGCCCGGAAAGACGACACCAAGGCAGCAGCTCTGCTCCTGCAGAATGACACAAAC
GCGGACGTGGAGTCAAAGAGTGGCTTCAACCCGCTCCACATAGCTGCCACTATGGGAACATCAATGTGG
CCACGTTGCTGTTAAACCGAGCGGCTGCTGTGGACTTCAACGCACGGAATGACATCACTCCCTTACACAG
TGCTCGAAGCGAGGAAATGCAAAATATGGTGAAGCTATTGCTGGACCGGGGTGCGAAGATCGATGCCAAG
ACCAGGGACGGTCTGACTCCGTTGCACTGTGGGCGAGAAGTGGCCATGAGCAGGTGGTAGAGATGTTGC
TTGACAGATCCGCCCCCATCCTTTCAAAAACCAAGAATGGATTGTCGCCACTGCACATGGCCACACAAGG
AGACCATTTAAACTGCGTCCAACCTCCTCCAGCACAACGTGCCGTGGACGACGTCAACCAACGACTAC
CTGACTGCCCTCCATGTGGCTGCCACTGCGGCCATTACAAAGTTGCCAAGGTTCTTTGGATAAGAAAAG
CTAGCCCCAATGCCAAAGCCCTGAATGGCTTCAACCCCTCCATATCGCTGCAAAAAGAACCGCATCCG
AGTAATGGAACCTCTTTGAAGCACGGTGCATCTATTCAAGCCGTAACCGAGTCGGGCTTACCCCAATC
CATGTTGCTGCCCTCATGGGACATGTAATATCGTGTACAGCTAATGCATCATGGAGCCTCCCCAAACA
CCACCAATGTGAGAGGAGAGACGGCATTGCATATGGCGGCTCGGTCCGGACAAGCAGAAGTGGTGGCGTA
TCTGGTCCAAGATGGGGCTCAGGTAGAAGCAAAAGCTAAGGATGACCAGACTCCACTCCACATCTCAGCC
CGACTTGGGAAAGCTGACATAGTGCAACAACCTGTTACAGCAAGGAGCATCCCCAATGCAGCAACAACCT



CTGGGTACACCCCTTACCTTGC GGCCAGAGAGGGGCATGAGGATGTAGCTGCGTTCCTCCTGGATCA
 TGGAGCATCTTTATCCATAACAACAAAGAAGGGATTACCCCTCTGCACGTGGCAGCCAAATACGGAAAG
 CTTGAAGTCGCAAGTCTCCTGCTGCAGAAGAGTGCCTCTCCCGATGCCGAGGGAAGAGCGGGCTAACTC
 CACTGCATGTAGCAGCGCATTACGATAATCAGAAAAGTGGCCCTTCTGCTCTTGACCAGGGAGCCTCACC
 CCACGCAGCCGCAAGAATGGCTATACACCACTGCACATCGCGGCCAAGAAGAACCAGATGGACATAGCC
 ACGTCCCTGCTGGAGTACGGTGTGATGCAAACGCGGTTACCCGGCAAGGGATTGCGTCCGTCCATCTTG
 CGGCACAGGAAGGCGACGTGGACATGGTGTGCTGCTCAAGAAGACCGAGTGAATGTGGCCGAGGTCTTGTC
 TAAGAGCCGTCTACCCCACTCCACTGGCTGCTCAAGAAGACCGAGTGAATGTGGCCGAGGTCTTGTC
 AACCCAGGGGGCCATGTGGATGCTCAGACAAAGATGGGCTACACCCCGCTCCATGTGGGCTGCACTATG
 GAAATATCAAAATAGTCAATTTTCTGCTGCAGCATTCTGCAAAAGTTAATGCCAAGACGAAGAATGGATA
 CACAGCACTGCACCAGGCTGCTCAGCAGGGCCACACGCATATCATCAATGTCTTGCTTCAAGAACGCC
 TCCCCAATGAACACTACTGTGAATGGGAACACAGCTCTGGCCATCGCCCGCGCCTTGTTACATCTCGG
 TGGTTGACACACTGAAGGTCGTGACGGAGGAAATTATGACCACCACTACCATCACGGAGAAGCACAAAAT
 GAATGTCCAGAAACGATGAATGAAGTCTCGATATGTCAGACGATGAAGTAAGGAAAGCCAGCGCCCCC
 GAAAAGCTCAGTGTGGGAATATATCTCAGACGGTGAAGAAGGTGATAAATGCACATGGTTCAAAATTC
 CCAAAGTACAGGAGGTTTTGGTAAAAGTGAAGATGCCATCACAGGGGACACTGACAAGTATCTCGGGCC
 ACAGGACCTTAAGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTTACGTAGGCTTCAGTCTTGAGGCC
 CGTTCTGCCAGCCTCCGCTCCTCAGTTCGGATAGGTCCTACACCTTGAACAGAAGCTCCTACGCAAGGG
 ACAGCATGATGATAGAGGAACCTTCTGGTACCATCCAAAGAGCAGCACCTGACGTTACAGAGGGAGTTTGA
 TTCTGACTCCCTCAGACACTACAGTTGGGCAGCGGACACGTTAGATAATGTGAACCTGGTCTCAAGCCCG
 GTGCATTCTGGGTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGGCTCCATGCGAGGAAGCCGCCACC
 ACGGGATGCGGATCATATCCCTCCGCGAAAGTGTACGGCCCCACCCGCATCACGTGCCGCTGGTAAA
 GAGACATAAACTGGCCAACCCACCCCAATGGTGAAGGAGAGGGATTAGCCAGTAGGCTGGTGAAGTATG
 GGTCCTGCGGGGGCACAATTTTTAGGCCCGCTCATTGTGAAATCCCTCATTTTTGGGTCCATGAGGGGA
 AGGAGAGAGAACTTATCGTCTTTCGAGCGGAGAACGGAGAGACCTGGAAGGAACATCAGTTTGACAGTAA
 AAACGAAGACCTCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCGACAGCCCGGAAGAGTTGGGTACA
 AAGCGCATCTGCAGAATTATCACAAAGGATTTCCCCAGTATTTTGCCTGGTTTCCCGATTAAAGCAGG
 AAAGCAACCAGATCGTCTGAGGGTGGGATTCTGAGCAGCACCACCGTGCCTCGTCCAGGCCTCCTT
 CCCAGAGGGCGCCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTCAGCCCGTCCAGAGGAAACGGTA
 AAAAAATCCTTGGGAACAAAGCAACATTTAGCCCAATTGTCACGGTAGAGCCGAGGAGAAGGAAGTTCC
 ATAAGCCGATCACCATGACCATTCCGGTCCCCCGCCCTCGGGAGAAGGCGTGTCCAATGGGTACAAGGG
 GGATGCCACGCCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCACCTACCAGCTCAATGGGAAGAC
 ATCACAGGAACAACCCCTCTGACGTTTCAAAAGGATTGTGTGCTTTTACAACCAACGTTTCAGCCAGAT
 TCTGGCTGGCGGACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCCTCCAGCTGTACAGAGAGCTGAT
 ATGCGTCCCTACATGGCCAAGTTCGTTGTGTTTGCCAAAACAAACGACCCGGTGGAGTCTCGTGGAGG
 TGCTTCTGTATGACAGACGACAGGGTGGACAAAACCTGGAGCAGCAGGAGAACTTCGAGGAGGTTGCCA
 GAAGCAAGACATTGAGGTTCTGGAAGGAAAGCCCATCTACGTTGATTGCTATGGAACCTGGCCCTCT
 GACCAAAGGAGGACAGCAGCTTGTAAAACTTTTATTCTTTCAAAGAAAACAGACTGCCATTTTCCATC
 AAGATCAGAGACACCAGTCAAGAGCCCTGTGCCGCTGTCTTTCTGAAGGACCAAGACAACAAAGG
 GATTACCCCAAACAGCTGTTGCAACTTAAATATTACTCTGCCGGCACATAAAAAGGCTGGAAGGCAGA
 CAGACGCCAGAGCTTTGCCTCCCTAGCTTTACGTAAGCGCTACAGCTACTTGACTGAACCCAGCATGAGT
 CCGCAGAGTCTTGTGAGCGGACGGATATCAGGATGGCGATAGTAGCCGATCACCTGGGACTTAGTTGGA
 CAGAGCTGGCAAGGGAAGTGAATTTTTAGTGGATGAAATCAACCAAAATACGTGTGGAATAATCCAAATC
 TTTAATTTCTCAGAGCTTATGTTATTAAGAAAGTGGGTGACCAGAGACGGAAGAATGCCACAAGTATG
 GCCTTAACTTCGGTCTTAAACGAAGATTAACCGGATAGACATTGTAACCTGCTGGAAGGACCAATATTTG
 ATTATGGGAATATTTAGGCACCAGAAGCTTTGCAGATGAAAACAATGTTTTCCATGACCCAGTTGATGG
 TCACCTTCTTTCAAGTGGAGCTGGAGACCCCATGGGGTGTACTGCACACCACCAACCTTTCCAG
 CAAGATGACCATTTTAGTGATATCTTAGCATAGAGTCTCCCTTTAGGACCCCACTAGACTGAGTGACG
 GGCTGGTGCCTTCCCAGGAAACATAGAGCATCCAACAGGTGGACCTCCAGTGGTAACCCGAGAGGACAC
 TTCTTTAGAAGACAGAAAATGGACGATTCTGTAACGTAACAGACCCGCGCCGACCCACTGGACGTAGAT
 GAGAGCCAGTTGAAGGACCTGTGTGAGAGCGAGTGTGCTCAGTGTGGGCGAGTGTGCCCGGATCCCAA
 ACGACGGTCCGACGGCAGAGCCACTGAGACCGCAGACTAGAAAAGTAGGCATGAGCTCTGAACAGCAGGA

AAAAGGAAAATCTGGTCCTGATGAGGAAGTGACAGAAGACAAGGTCAAATCTCTGTTTGAGGACATTCAA
 CTTGAAGAAGTAGAGGCTGAGGAGATGACAGAAGACCAGGGGCAGGCTATGCTTAACCGTGTTCAGCGAG
 CAGAACTGGCAATGTCTTCACTTGCAGGTTGGCAGAACGAGACGCCAAGTGAAGCCTAGAGTCCCCAGC
 GCAAGCTCGAAGACTAAGTGGTGGGTTACTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCT
 ATTACCTCATACCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGGAACCACACAGCGGAAGTCATTC
 CAGAAGCAAAGGCAAAACCTACTTCCCGAATCCCAAACGATATAGGGAAACAGAGCATCAAGGAGAA
 CCTGAAACCAAAAACACACGGATGTGGTCGACTGAGGAACCAAGTGTCCGCCCTCACAGCCTACCAGAAA
 TCTCTGGAAGAAACCAGCAAGCTTGTCTAGAAAGACGCACCTAAACCCTGTGTGCCTGTCGGCATGAAAA
 AGATGACCAGGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCACCAGGTC
 AGAGCCTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACC
 CAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215342 representing NM_146005
 Red=Cloning site Green=Tags(s)

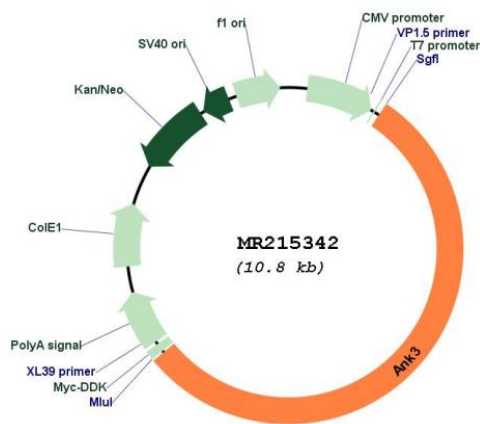
MSEEPKEKPAKPAHRKRKGGKSDANASYLRAARAGHLEKALDYIKNGVDVNICNQNLNALHLASKEGHV
 EVVSELLQREANVDAATKKGNTALHIASLAGQAEVVKVLVTNGANVNAQSQNGFTPLYMAAQENHLEVVR
 FLLDNGASQSLATEDGFPLAVALQQGHDQVVSLLLLENDTKGKVRPALHIAARKDDTKAAALLQNDTN
 ADVESKSGFTPLHIAAHYGNINVATLLLNRAAAVDFTARNDITPLHVASKRGNANMVKLLDRGAKIDAK
 TRDGLTPLHCGARSGHEQVVEMLLDRSAPILSKTKNGLSPLHMATQGDHLNVCVQLLLQHNVVDDVTNDY
 LTALHVAACHGHYKAVKLLDKKASPNAKALNGFTPLHIAACKKNRIRVMELLLKHGASIQAVTESGLTPI
 HVAAFMGHVNIQSMLMHGASPNNTNVRGETALHMAARSQAEEVRYLVQDGAQVEAKAKDDQTPHISA
 RLGKADIVQQLLQQGASPAATTSYTPHLAAREGHEDVAFFLLDHGASLSITTKKGFPLHVAAYKYGK
 LEVASLLLQKSASPDAAGKSGLTPHVAAHYDNQKVALLLLDQGASPHAAAKNGYTPLHIAAKKNQMDIA
 TSLLEYGADANAVTRQGIASVHLAAQEGHVDMSVLLL SRANANVNL SNKSGL TPLHLAAQEDRVNVAEVLV
 NQGAHVDAQTKMGYTPLHVGCHYGNIKIIVNLLQHSKVNKTKNGYALHQAQQGHTHIINVLQNNNA
 SPNELTVNGNTALAIARRLGYISVVDLTKVVTEEIMTTTTITEKHKMNVPEMNEVLDMSDDEVKASAP
 EKLSDGEYISDGEEDKCTWFKIPKVQEVLVKSEDAITGDTDKYLGPDQLKELGDDSLPAEGYVGFSLGA
 RSASLRSFSSDRSYTLNRSSYARDSMMIEELLVPSKEQHLTFTRFSDSLRHYSWAADTLDNVNLVSSP
 VHSGFLVSFMDVARGGSMRGRSRHHGMRIIPPRKCTAPTRITCRLVKRHLANPPPMEVEGGLASRLVEM
 GPAGAQLGPVIVEIPHFGSMRGKERELIVLRSENGETWKEHQFDSKNEDELLNGMDEELDSPEELGT
 KRICRIITKDFPQYFAVVSRIKQESNQIGPEGGILSSTTVPLVQASFPEGALTKRIRVGLQAQVPPEETV
 KKILGNKATFSPIVTVEPRRRKFHKPITMTIPVPPPSGEGVSNGYKGDATPNLRLLCSITGGTSPAQWED
 ITGTTPLTFIKDCVSFTTNVSARFWLADCHQVLETVGLASQLYRELICVPYMAKVVFAKTNDPVESSLR
 CFCMTDDRVDKTLLEQQENFEVARSKDIEVLEGPPIYVDCYGNLAPLTKGGQQLVFNFYFKENRPFISI
 KIRDTSQEPGRLSFLKEPKTKGLPQTAVCNLNIPLPAHKKAEKADRRQSFASLALRKRYSYLTPESMS
 PQSPCERTDIRMAIVADHLGLSWTELARELNFVDEINQIRVENPNLSISQSFMLLKKWVTRDGNATTD
 ALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENNVFHDVPDGHPSFQVELETMPGLYCTPPNPFQ
 QDDHFSDISSIESPFRTPSRLSDGLVPSQGNIEHPTGGPPVTAEDTSLLEDSKMDDSVTVDPADPLDVD
 ESQKLDLCQSECAQCWASVPGIPNDGRQAEPLRPQTRKVGMSSEQQEKGKSGPDEEVEDKVKSLFEDIQ
 LEEVEAEEMTEDQGQAMLNRVQRAELAMSSLAGWQNETPSGSLESPAQARRLTGGLLDRLDDSSDQARDS
 ITSYL TGEPGKIEANGNHTAEVIPEAKAKPYFPESQNDIGKQSIKENLKPETHGCGRTEEPVSPLTAYQK
 SLEETSCLVIEDAPKPCVPVGMKKMTRTTADGKARLNLQEEEGSTRSEPKQEGYKVKTKKEIRNVEKKT
 H

TRTRPLEQKLI SEEDLAANDILDYKDDDDKVV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_146005

ORF Size:

5883 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:	<ol style="list-style-type: none">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:	<u>NM_146005.3</u> , <u>NP_666117.2</u>
RefSeq Size:	10025 bp
RefSeq ORF:	5886 bp
Locus ID:	11735
UniProt ID:	<u>G5E8K5</u>
Cytogenetics:	10 36.1 cM
MW:	214.5 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]