

Product datasheet for MR215345

Ank3 (NM_170729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170729) 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:	>MR215345 representing NM_170729 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAGTCTGATG
CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGAAAAGGCCCTTGACTACATCAAAAATGG
AGTGGACGTCAACATCTGTAACCAAGATGGATTGAATGCACTCCATCTTGCTTCAAAGAAGGCCATGTG
GAAGTGGTCTCTGAGCTGCTGCAGAGGGAAGCCAATGTTGATGCCGCCACAAGAAAGGAAACACGGCCT
TACACATCGCATCTTTGGCTGGCAAGCGGAAGTGGTCAAGGTCTTGGTTACGAACGGAGCGAATGTCAA
CGCACAATCTCAGAATGGCTTACACCATTGTATATGGCAGCCCAGGAGAACCACCTGGAAGTCGTCAGG
TTTCTTCTGGACAATGGCGCCAGCCAAAGCCTGGCCACAGAGGACGGCTTACGCCATTGGCCGTGGCTC
TGCAACAAGGTCATGACCAAGTCGTGTCCCTCTGCTCGAGAACGACACGAAGGGAAAAGTGCAGCTCCC
AGCCCTCCACATCGCAGCCCGGAAAGACGACACCAAGGCAGCAGCTCTGCTCCTGCAGAATGACACAAAC
GCGGACGTGGAGTCAAAGAGTGGCTTCAACCCGCTCCACATAGCTGCCACTATGGGAACATCAATGTGG
CCACGTTGCTGTTAAACCGAGCGGCTGCTGTGGACTTCAACGCACGGAATGACATCACTCCCTTACACGT
TGCTCGAAGCGAGGAAATGCAAAATATGGTGAAGCTATTGCTGGACCGGGGTGCGAAGATCGATGCCAAG
ACCAGGGACGGTCTGACTCCGTTGCACTGTGGGCGAGAAGTGGCCATGAGCAGGTGGTAGAGATGTTGC
TTGACAGATCCGCCCCATCCTTTCAAAAACCAAGAATGGATTGTCGCCACTGCACATGGCCACACAAGG
AGACCATTTAAACTGCGTCCAACCTCCTCCAGCACAACGTGCCGTGGACGACGTCAACCAACGACTAC
CTGACTGCCCTCCATGTGGCTGCCACTGCGGCCATTACAAAGTTGCCAAGGTTCTTTGGATAAGAAAAG
CTAGCCCCAATGCCAAAGCCCTGAATGGCTTCAACCCCTCCATATCGCTGCAAAAAGAACCGCATCCG
AGTAATGGAACCTCTTTGAAGCACGGTGCATCTATTCAAGCCGTAACCGAGTCGGGCCTTACCCCAATC
CATGTTGCTGCCTTCATGGGACATGTAATATCGTGTACAGCTAATGCATCATGGAGCCTCCCCAAACA
CCACCAATGTGAGAGGAGAGACGGCATTGCATATGGCGGCTCGGTCCGGACAAGCAGAAGTGGTGGCGTA
TCTGGTCCAAGATGGGGCTCAGGTAGAAGCAAAAGCTAAGGATGACCAGACTCCACTCCACATCTCAGCC
CGACTTGGGAAAGCTGACATAGTGCAACAACCTGTTACAGCAAGGAGCATCCCCCAATGCAGCAACAACCT



[View online »](#)

CTGGGTACACCCCTTACCTTGC GGCCAGAGAGGGGCATGAGGATGTAGCTGCGTTCCTCCTGGATCA
 TGGAGCATCTTTATCCATAACAACAAAGAAGGGATTACCCCTCTGCACGTGGCAGCCAAATACGGAAAG
 CTTGAAGTCGCAAGTCTCCTGCTGCAGAAGAGTGCCTCTCCCGATGCCGAGGGAAGAGCGGGCTAACTC
 CACTGCATGTAGCAGCGCATTACGATAATCAGAAAAGTGGCCCTTCTGCTCTTGACCAGGGAGCCTCACC
 CCACGCAGCCGCAAGAATGGCTATACACCACTGCACATCGCGGCCAAGAAGAACCAGATGGACATAGCC
 ACGTCCCTGCTGGAGTACGGTGTGATGCAAAACGCGGTTACCCGGCAAGGGATTGCGTCCGTCCATCTTG
 CGGCACAGGAAGGCACGTGGACATGGTGTGCTGCTCCTGAGTAGAAAACGCGAATGTCAACCTGAGCAA
 TAAGAGCGGTCTCACCCACTCCACTGGCTGCTCAAGAAGACCGAGTGAATGTGGCCGAGGTCTTGTC
 AACCCAGGGGCCATGTGGATGCTCAGACAAAGATGGGCTACACCCCGCTCCATGTGGGCTGCACTATG
 GAAATATCAAAATAGTCAATTTTCTGCTGCAGCATTCTGCAAAAGTTAATGCCAAGACGAAGAATGGATA
 CACAGCACTGCACCAGGCTGCTCAGCAGGGCCACACGCATATCATCAATGTCTTGCTTCAAGAACGCC
 TCCCCAATGAACCTACTGTGAATGGGAACACAGCTCTGGCCATCGCCCGCGCCTTGTTACATCTCGG
 TGGTTGACACACTGAAGGTGCTGACGGAGGAAATATGACCACCACTACCATCACGGAGAAGCACAAAAT
 GAATGTCCGAAACGATGAATGAAGTCTCGATATGTCAGACGATGAAGGTGAAGATGCCATCACAGGG
 GACACTGACAAGTATCTCGGGCCACAGGACCTTAAGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTT
 ACGTAGGCTTCACTCTTGAGGCCGTTCTGCCAGCCTCCGCTCCTCAGTTCGGATAGGTCCTACACCTT
 GAACAGAAAGTCTTACGCAAGGGACAGCATGATGATAGAGGAACTTCTGGTACCATCCAAGAGCAGCAC
 CTGACGTTACGAGGGAGTTTATTCTGACTCCCTCAGACACTACAGTTGGGCAGCGGACACGTTAGATA
 ATGTGAACCTGGTCTCAAGCCCGGTGCATTCTGGGTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGG
 CTCCATGCGAGGAAGCCGCCACCACGGGATGCGGATCATCATCCCTCCGCGAAAGGTACGGCCCCCACC
 CGCATCACGTGCCGCTGGTAAAGAGACATAAACTGGCCAACCCACCCCCATGGTGAAGGAGAGGGAT
 TAGCCAGTAGGCTGGTAGAAATGGGCTCTGCGGGGCACAATTTTAGGCCCGCTATTGTGAAATCCC
 TCATTTTGGTCCATGAGGGGGAAGGAGAGAGAACTTATCGTCTTTCGGAGCGAGAACGGAGACTGG
 AAGGAACATCAGTTTGACAGTAAAAACGAAGACCTCGCGGAGCTTCTCAATGGCATGGATGAAGAAGTCTG
 ACAGCCCGGAAGAGTTGGGTACAAGCGCATCTGCAGAATTATCACAAGGATTTCCCCAGTATTTTGC
 CGTGGTTTCCCGATTAAAGCAGGAAAGCAACCAGATCGGTCTGAGGGTGGGATTCTGAGCAGCACCACC
 GTGCCCTCGTCCAGGCTCCTTCCAGAGGGCGCCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTC
 AGCCCGTCCAGAGGAAACGGTAAAAAAATCCTTGGGAACAAAGCAACATTTAGCCCAATTGTACCGGT
 AGAGCCGAGGAGAAGGAAGTTCCATAAAGCCGATCACCATGACCATTCCGGTGCCCGCCCTCGGGAGAA
 GCGGTGTCCAATGGGTACAAGGGGGATGCCACGCCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCA
 CCTCACCAGCTCAATGGGAAGACATCACAGGAACAACCCCTCTGACGTTTATAAAGGATTGTGTCTTT
 CACAACCAACGTTTACGCCAGATTCTGGCTGGCGGACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCC
 TCCCAGCTGTACAGAGAGCTGATATGCGTTCCTACATGGCCAAGTTCGTTGTGTTTGC AAAACAAACG
 ACCCGGTGGAGTCTCGCTGAGGTGCTTCTGTATGACAGACGACAGGGTGGACAAAACCTGGAGCAGCA
 GGAGAACTTCGAGGAGGTTGCCAGAAGCAAGACATTGAGGTTCTGGAAGGAAAGCCATCTACGTTGAT
 TGCTATGGAAACCTGGCCCTCTGACCAAAGGAGGACAGCAGCTTGTTTTAACTTTTATCTTTCAAAG
 AAAACAGACTGCCATTTCCATCAAGATCAGAGACACCAGTCAAGAGCCCTGTGGCCGCTGTCTTTCT
 GAAGGAGCCAAAGACAACAAAGGGATTACCCCAAACAGCTGTTTGCAACTTAAATATTACTTGCCGGCA
 CATAAAAAGGCTGAGAAGGCAGACAGACGCCAGAGCTTTGCCTCCCTAGCTTTACGTAAGCGCTACAGT
 ACTTGACTGAACCCAGCATGAGTCCGAGAGTCTTGTGAGCGGACGGATACAGGATGGCGATAGTAGC
 CGATCACCTGGGACTTAGTTGGACAGAGCTGGCAAGGAACTGAATTTTTAGTGGATGAAATCAACCAA
 ATACGTGTGAAAATCCCAATCTTTAATTTCTCAGAGCTTATGTTATTA AAAAAGTGGGTGACCAGAG
 ACGGAAAGAAATGCCACAACCTGATGCCTTAACCTCGGTCTTAACGAAGATTAACCGGATAGACATTGTAAC
 TCTGCTGGAAGGACCAATATTTGATTATGGGAATATTTACAGCACCAGAAGCTTTGCAGATGAAAACAAT
 GTTTTCCATGACCCAGTTGATGGTCACCCTTCTTTCAAGTGGAGCTGGAGACCCCATGGGGTTGACT
 GCACACCACCAACCTTTCCAGCAAGATGACCATTTTAGTGATATCTTAGCATAGAGTCTCCCTTAG
 GACCCCACTAGACTGAGTGACGGGCTGGTGCCTTCCAGGGAACATAGAGCATCCAACAGGTGGACCT
 CCAGTGGTAACCCGAGAGGACACTTCTTTAGAAGACAGCAAAATGGACGATTCTGTAACGTAAACAGACC
 CGGCCGACCCACTGGACGTAGATGAGAGCCAGTTGAAGGACCTGTGTGAGAGCGAGTGTGCTCAGTGCTG
 GGCGAGTGTGCCCGGATCCCAAACGACGGTCGGCAGGCAGAGCCACTGAGACCCGACAGTAGAAAAGTA
 GGCATGAGCTCTGAACAGCAGGAAAAAGGAAAAATCTGGTCTGATGAGGAAGTGACAGAAGACAAGGTCA
 AATCTCTGTTGAGGACATCAACTGAAGAAGTAGAGGCTGAGGAGATGACAGAAGACCAGGGGCAGGC

TATGCTTAACCGTGTTTCAGCGAGCAGAAGCTGGCAATGTCTTCACTTGCAGGTTGGCAGAACGAGACGCCA
 AGTGGAAGCCTAGAGTCCCCAGCGCAAGCTCGAAGACTAACTGGTGGGTTACTGGACCGTCTGGATGACA
 GCTCTGACCAGGCTCGGGATTCTATTACCTCATACCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGG
 AAACCACACAGCGGAAGTCATCCAGAAGCAAAGGCAAAACCTACTTCCCGAATCCCAAAACGATATA
 GGGAAACAGAGCATCAAGGAGAAGCTGAAACCAAAAACACACGGATGTGGTGCCTGAGGAACCAAGTGT
 CGCCCCACAGCCTACCAGAAATCTCTGGAAGAAACAGCAAGCTTGTATAGAAGACGCACCTAAACC
 CTGTGTGCCTGTGCGCATGAAAAAGATGACCAGGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAG
 GAAGAAGAGGGGTCCACCAGGTCAGAGCCTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAA
 TCCGGAACGTGGAGAAGAAAACCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215345 representing NM_170729
 Red=Cloning site Green=Tags(s)

MSEEPKEKPAKPAHRKRKGGKSDANASYLRAARAGHLEKALDYIKNGVDVNICNQNLNALHLASKEGHV
 EVVSELLQREANVDAATKKGNTALHIASLAGQAEVVKVLVTNGANVNAQSQNGFTPLYMAAQENHLEVVR
 FLLDNGASQSLATEDGFTPLAVALQQGHDQVVSLLLLENDTKGKVRPALHIAARKDDTKAAALLQNDTN
 ADVESKSGFTPLHIAAHYGNINVALLLLNRAAAVDFTARNDITPLHVASKRGNANMVKLLDRGAKIDAK
 TRDGLTPLHCGARSGHEQVVEMLLDRSAPILSKTKNGLSPLHMATQGDHLNVCVQLLLQHNVPVDDVTNDY
 LTALHVAACHGHYKVAKVLDDKASPNAKALNGFTPLHIAACKNRIKRMELLLKHGASIQAVTESGLTPI
 HVAAFMGHVNIIVSQLMHHGASPNNTNVRGETALHMAARSQAQEVVRYLVQDGAQVEAKAKDDQTPHLHISA
 RLKADIVQQLLQQGASPNAAATSGYTPLHLAAREGHEDVAAFLLDHGASLSITTKKGFPLHVAAYGK
 LEVASLLLQKSASPDAAAGKSGLTPLHVAHYDNQKVALLLDQGASPHAAKNGYTPLHIAAKKNQMDIA
 TSLLEYGADANAVTRQGIASVHLAAQEGHVDMSVLLL SRANVNLSNKSGLTPLHLAAQEDRVNVAEVLV
 NQGAVDAQTKMGYTPLHVGCHYGNIKIVNLLQHSKVNKTKNGYALHQAQQGHITHIINVLLQNNA
 SPNELTVNGNTALAIARRLGYISVVDTLKVVTEEIMTTTTITEKHKMNVPETMNEVLDMSDDEGEDAITG
 DTDKYLGPQDLKELGDDSLPAEGYVGFSLGARSASLRSFSSDRSYTLNRSSYARDSMMIEELLVPSKEQH
 LFTTREFDSDSLRHYSWAADTLDNVNLVSPVHSGFLVSMVDARGGSMRGRHGMRIIIPPRKCTAPT
 RITCRLVKRHLANPPMVEGEGLASRLVEMGPAGAQLGFPVIVEIPHFGSMRGKERELIVLRSENGETW
 KEHQFDSKNEDLAELLNGMDEELDSPEELGTRICRIITKDFPQYFAVVSRIKQESNQIGPEGGILSSTT
 VPLVQASFPEGALTKRIRVGLQAQPVPEETVKKILGNKATFSPIVTVPEPRRRKFHKPITMTIPVPPPSGE
 GVSNGYKGDATPNLRLCSITGGTSPAQWEDITGTTPLTFIKDCVSFTTNVSARFWLADCHQVLETVGLA
 SLYRELICVPYMAKFFVFAKTNDPVESLRCFCMTDDRVDKLEQQENFEVARSKDIEVLEGKPIYVD
 CYGNLAPLTKGGQQLVFNFYFKENRPFSEIKIRDTSQEPGRLSFLKEPKTTKGLPQTAVCNLNLITLPA
 HKKAEKADRRQSFASLALRKRYSYLTPSMSQPSPCERTDIRMAIVADHLGLSWTELARELNFVDEINQ
 IRVENPNLSISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENN
 VFHDPVDGHPFSQVELETPMGLYCTPPNPFQDDHFDIISIESPFRTPSRLSDGLVPSQGNIEHPTGGP
 PVVTAEDTSLEDSKMDDSVTVTDPADPLDVDESQKDLQSECAQCWASVPGIPNDGRQAEPLRPQTRKV
 GMSSEQQEKGKSGPDEEVTEDEKVKSLFEDIQLEEEVEAEEMTEDQGQAMLNRVQRAELAMSSLAGWQNETP
 SGSLESPAQARRLTGGLDRLDDSSDQARDSITSYLTGEPGKIEANGNHTAEVIPEAKAKPYFPESQNDI
 GKQSIKENLKPETHGCGRTEEPVSPLTAYQKSLEETSCLVIEDAPKPCVPVGMKKMTRTTADGKARLNLQ
 EEEGSTRSEPKQGEQYKVKTKKEIRNVEKKT

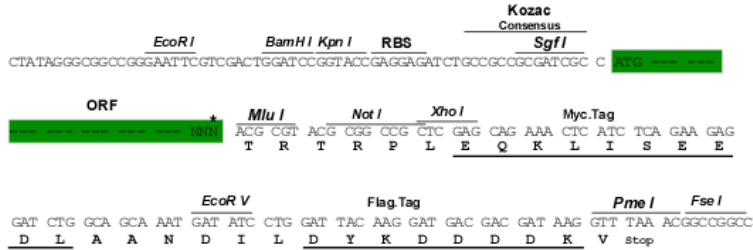
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

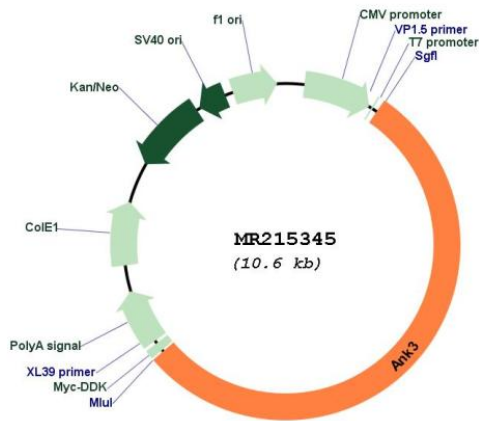
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_170729
 ORF Size: 5766 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:	NM_170729.2 , NP_733925.2
RefSeq Size:	9908 bp
RefSeq ORF:	5769 bp
Locus ID:	11735
UniProt ID:	G5E8K5
Cytogenetics:	10 36.1 cM
MW:	210.1 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]