OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC224872

Ank3 (NM_170728) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank3 (NM_170728) Mouse Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>MC224872 representing NM_170728 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGAAGAGCCAAAGGAGAAGCCCGCCAAGCCTGCTCATAGGAAGAGGAAAGGAAAAAAGTCTGATG CCAACGCAAGTTACTTAAGAGCAGCTCGGGCAGGGCACCTGGAAAAGGCCCTTGACTACATCAAAAATGG AGTGGACGTCAACATCTGTAACCAGAATGGATTGAATGCACTCCATCTTGCTTCCAAAGAAGGCCATGTG GAAGTGGTCTCTGAGCTGCTGCAGAGGGAAGCCAATGTTGATGCCGCCACAAAGAAAGGAAACACGGCCT TACACATCGCATCTTTGGCTGGGCAAGCGGAAGTGGTCAAGGTCTTGGTTACGAACGGAGCGAATGTCAA CGCACAATCTCAGAATGGCTTCACACCATTGTATATGGCAGCCCAGGAGAACCACCTGGAAGTCGTCAGG TTTCTTCTGGACAATGGCGCCAGCCAAAGCCTGGCCACAGAGGACGGCTTCACGCCATTGGCCGTGGCTC TGCAACAAGGTCATGACCAAGTCGTGTCCCTCCTGCTCGAGAACGACACGAAGGGAAAAGTGCGCCTCCC AGCCCTCCACATCGCAGCCCGGAAAGACGACACCAAGGCAGCAGCTCTGCTCCTGCAGAATGACACAAAC GCGGACGTGGAGTCAAAGAGTGGCTTCACCCCGCTCCACATAGCTGCCCACTATGGGAACATCAATGTGG CCACGTTGCTGTTAAACCGAGCGGCTGCTGTGGACTTCACCGCACGGAATGACATCACTCCCTTACACGT TGCCTCGAAGCGAGGAAATGCAAATATGGTGAAGCTATTGCTGGACCGGGGTGCGAAGATCGATGCCAAG ACCAGGGACGGTCTGACTCCGTTGCACTGTGGGGCGAGAAGTGGCCATGAGCAGGTGGTAGAGATGTTGC TTGACAGATCCGCCCCCATCCTTTCAAAAACCAAGAATGGATTGTCGCCACTGCACATGGCCACACAAGG AGACCATTTAAACTGCGTCCAACTCCTCCTCCAGCACAACGTGCCCGTGGACGACGTCACCAACGACTAC CTGACTGCCCTCCATGTGGCTGCCCACTGCGGCCATTACAAAGTTGCCAAGGTTCTTTTGGATAAGAAAG CTAGCCCCAATGCCAAAGCCCTGAATGGCTTCACCCCTCTCCATATCGCCTGCAAAAAGAACCGCATCCG AGTAATGGAACTCCTTTTGAAGCACGGTGCATCTATTCAAGCCGTAACCGAGTCGGGCCTTACCCCAATC CATGTTGCTGCCTTCATGGGACATGTAAATATCGTGTCACAGCTAATGCATCATGGAGCCTCCCCAAACA CCACCAATGTGAGAGGAGAGACGGCATTGCATATGGCGGCTCGGTCCGGACAAGCAGAAGTGGTGCGGTA TCTGGTCCAAGATGGGGCTCAGGTAGAAGCAAAAGCTAAGGATGACCAGACTCCACTCCACATCTCAGCC CGACTTGGGAAAGCTGACATAGTGCAACAACTGTTACAGCAAGGAGCATCCCCCAATGCAGCAACAACTT

View online »

CTGGGTACACCCCCCTTCACCTTGCGGCCAGAGAGGGGCATGAGGATGTAGCTGCGTTCCTCCTGGATCA
TGGAGCATCTTTATCCATAACAACAAAGAAGGGATTCACCCCTCTGCACGTGGCAGCCAAATACGGAAAG
CTTGAAGTCGCAAGTCTCCTGCTGCAGAAGAGTGCGTCTCCCGATGCCGCAGGGAAGAGCGGGCTAACTC
CACTGCATGTAGCAGCGCATTACGATAATCAGAAAGTGGCCCTTCTGCTCTTGGACCAGGGAGCCTCACC
CCACGCAGCCGCAAAGAATGGCTATACACCACTGCACATCGCGGCCAAGAAGAACCAGATGGACATAGCC
ACGTCCCTGCTGGAGTACGGTGCTGATGCAAACGCGGTTACCCGGCAAGGGATTGCGTCCGTCCATCTTG
CGGCACAGGAAGGGCACGTGGACATGGTGTCGCTGCTCCTGAGTAGAAACGCGAATGTCAACCTGAGCAA
TAAGAGCGGTCTCACCCCACTCCACCTGGCTGCTCAAGAAGACCGAGTGAATGTGGCCGAGGTCCTTGTC
AACCAGGGGGCCCATGTGGATGCTCAGACAAAGATGGGCTACACCCCGCTCCATGTGGGCTGTCACTATG
GAAATATCAAAATAGTCAATTTTCTGCTGCAGCATTCTGCAAAAGTTAATGCCAAGACGAAGAATGGATA
CACAGCACTGCACCAGGCTGCTCAGCAGGGCCACACGCATATCATCAATGTCTTGCTTCAGAACAACGCC
TCCCCCAATGAACTCACTGTGAATGGGAACACAGCTCTGGCCATCGCCCGGCGCCTTGGTTACATCTCGG
TGGTTGACACACTGAAGGTCGTGACGGAGGAAATTATGACCACCACTACCATCACGGAGAAGCACAAAAT
GAATGTCCCAGAAACGATGAATGAAGTCCTCGATATGTCAGACGATGAAGGTGAAGATGCCATCACAGGG
GACACTGACAAGTATCTCGGGCCACAGGACCTTAAGGAGCTAGGTGATGACTCCCTGCCAGCAGAAGGTT
ACGTAGGCTTCAGTCTTGGAGCCCGTTCTGCCAGCCTCCGCTCCTTCAGTTCGGATAGGTCCTACACCTT
GAACAGAAGCTCCTACGCAAGGGACAGCATGATGATAGAGGAACTTCTGGTACCATCCAAAGAGCAGCAC
CTGACGTTCACGAGGGAGTTTGATTCTGACTCCCTCAGACACTACAGTTGGGCAGCGGACACGTTAGATA
ATGTGAACCTGGTCTCAAGCCCGGTGCATTCTGGGTTTCTGGTTAGCTTTATGGTGGACGCGAGAGGGGG
CTCCATGCGAGGAAGCCGCCACCACGGGATGCGGATCATCATCCCTCCGCGAAAGTGTACGGCCCCCACC
CGCATCACGTGCCGCCTGGTAAAGAGACATAAACTGGCCAACCCACCCCCCATGGTGGAAGGAGAGGGAT
TAGCCAGTAGGCTGGTAGAAATGGGTCCTGCGGGGGCACAATTTTTAGGCCCCGTCATTGTGGAAATCCC
TCATTTTGGGTCCATGAGGGGGAAGGAGAGAGAACTTATCGTCCTTCGGAGCGAGAACGGAGAGACCTGG
AAGGAACATCAGTTTGACAGTAAAAACGAAGACCTCGCGGAGCTTCTCAATGGCATGGATGAAGAACTCG
ACAGCCCGGAAGAGTTGGGTACAAAGCGCATCTGCAGAATTATCACAAAGGATTTCCCCCAGTATTTTGC
CGTGGTTTCCCGGATTAAGCAGGAAAGCAACCAGATCGGTCCTGAGGGTGGGATTCTGAGCAGCACCACC
GTGCCCCTCGTCCAGGCCTCCTTCCCAGAGGGCGCCTTAACCAAGAGGATCCGTGTGGGTCTCCAGGCTC
AGCCCGTGCCAGAGGAAACGGTAAAAAAAATCCTTGGGAACAAAGCAACATTTAGCCCAATTGTCACGGT
AGAGCCGAGGAGAAGGAAGTTCCATAAGCCGATCACCATGACCATTCCGGTGCCCCCGCCCTCGGGAGAA
GGCGTGTCCAATGGGTACAAGGGGGATGCCACGCCCAACCTGCGGCTCCTCTGCAGCATCACAGGAGGCA
CCTCACCAGCTCAATGGGAAGACATCACAGGAACAACCCCTCTGACGTTCATAAAGGATTGTGTGTCTTT
CACAACCAACGTTTCAGCCAGATTCTGGCTGGCGGACTGCCATCAGGTGTTAGAGACCGTAGGGCTAGCC
TCCCAGCTGTACAGAGAGCTGATATGCGTTCCCTACATGGCCAAGTTCGTTGTGTTTGCCAAAACAAACG
ACCCGGTGGAGTCCTCGCTGAGGTGCTTCTGTATGACAGACGACAGGGTGGACAAAACCCTGGAGCAGCA
GGAGAACTTCGAGGAGGTTGCCAGAAGCAAAGACATTGAGGTTCTGGAAGGAAAGCCCATCTACGTTGAT
TGCTATGGAAACCTGGCCCCTCTGACCAAAGGAGGACAGCAGCTTGTTTTTAACTTTTATTCTTTCAAAG
AAAACAGACTGCCATTTTCCATCAAGATCAGAGACACCAGTCAAGAGCCCTGTGGCCGCCTGTCTTTCCT
GAAGGAGCCAAAGACAACAAAGGGATTACCCCAAACAGCTGTTTGCAACTTAAATATTACTCTGCCGGCA
CATAAAAAGGCTGAGAAGGCAGACAGACGCCAGAGCTTTGCCTCCCTAGCTTTACGTAAGCGCTACAGCT
ACTTGACTGAACCCAGCATGAGTCCGCAGAGTCCTTGTGAGCGGACGGATATCAGGATGGCGATAGTAGC
CGATCACCTGGGACTTAGTTGGACAGAGCTGGCAAGGGAACTGAATTTTTCAGTGGATGAAATCAACCAA
ATACGTGTGGAAAATCCCAATTCTTTAATTTCTCAGAGCTTCATGTTATTAAAAAAGTGGGTGACCAGAG
ACGGAAAGAATGCCACAACTGATGCCTTAACTTCGGTCTTAACGAAGATTAACCGGATAGACATTGTAAC
TCTGCTGGAAGGACCAATATTTGATTATGGGAATATTTCAGGCACCAGAAGCTTTGCAGATGAAAACAAT
GTTTTCCATGACCCAGTTGATGGTTGGCAGAACGAGACGCCAAGTGGAAGCCTAGAGTCCCCAGCGCAAG
CTCGAAGACTAACTGGTGGGTTACTGGACCGTCTGGATGACAGCTCTGACCAGGCTCGGGATTCTATTAC
CTCATACCTCACGGGAGAACCTGGGAAGATCGAAGCAAATGGAAACCACACAGCGGAAGTCATTCCAGAA
GCAAAGGCAAAACCCTACTTCCCGGAATCCCAAAACGATATAGGGAAACAGAGCATCAAGGAGAACCTGA
AACCAAAAACACACGGATGTGGTCGCACTGAGGAACCAGTGTCGCCCCTCACAGCCTACCAGAAATCTCT
GGAAGAAACCAGCAAGCTTGTCATAGAAGACGCACCTAAACCCTGTGTGCCTGTCGGCATGAAAAAGATG
ACCAGGACTACGGCTGACGGCAAAGCCAGGCTCAACCTCCAGGAAGAAGAGGGGTCCACCAGGTCAGAGC
CTAAGCAGGGAGAAGGCTATAAGGTGAAGACGAAGAAGGAAATCCGGAACGTGGAGAAGAAAACCCACTA

G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_170728
Insert Size:	5181 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	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_170728.2, NP_733924.2
RefSeq Size:	9320 bp
RefSeq ORF:	5181 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] Transcript Variant: This variant (1) has multiple differences in the coding region but maintains the reading frame, compared to variant 2. The encoded isoform (a) is shorter, compared to isoform b.