

Product datasheet for MC224970

Ank1 (NM_031158) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank1 (NM_031158) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ank1
Synonyms:	Ank-1; nb; pale
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224970 representing NM_031158 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGAGCGGGCCGCGCAGGTCGGGGTCAGACCCCGGGCCGATGCTGCTACCAGCTTTCTGCGGGCGG
CACGCTCGGGGAACCTGGACAAGGCTCTGGATCACCTGCGCAATGGAGTGGACATTAACACCTGTAACCA
GAACGGTTGAACGGCCTGCATCTGGCCTCAAAGAAGGCCATGTGAAGATGGTGGTTGAACTTCTGCAC
AAAGAGATCAATCTAGAAACGACAACCAAGAAGGGGAACACTGCTCTGCACATCGCTGCCCTTGCTGGTC
AGGATGAGGTGGTCCGGGAGCTGGTCAACTATGGAGCCAATGTCAATGCCAGTCTCAGAAAGGCTTTAC
TCCCCTGTACATGGCTGCTCAGGAGAACCCTTGGAAAGTGGTAAATTTCTACTGGAGAATGGAGCCAAT
CAGAATGTAGCCACAGAAGATGGCTTACCCCACTGGCCGTGGCTCTACAGCAGGGTCACGAGAATGTGG
TGGCTCACCTCATCAACTATGGGACGAAAGGAAAAGTGCCTCCCTGCCCTGCACATCGCGGCCCGCAA
CGATGACACACGGACAGCCGAGTCTTCTGCAGAATGACCCCAACCCAGATGTGCTTTCCAAGACGGGA
TTCACACCCCTCCACATCGCAGTCACTATGAGAACCTCAACGTGGCCAGTTGCTCCTCAACAGGGGAG
CCAGCGTCAACTTCACACCTCAGAATGGCATCACCCACTACACATCGCCTCCCGCAGGGGAACGTGAT
CATGGTGAGACTCCTGCTGGACCGAGGGGCTCAGATAGAAACGAGGACCAAGGATGAATTGACACCGCTC
CACTGTGCAGCTCGAATGGACACGTGAGAATCTCAGAGATCCTGCTGGACCACGGGGCACCCATCCAAG
CCAAAACCAAGAATGGCTTGTCCTCAATCCACATGGCCGCTCAGGGAGACCACCTCGACTGTGTCCGACT
TCTATTGCAATACAATGCAGAGATAGACGACATCACCTTGGATCACCTGACTCCTCTCCAATGTGGCAGCC
CACTGTGGCCACCACGGGTGGCTAAGGTTCTTTTGGATAAAGGGGCCAAGCCCAACTCCAGAGCCCTGA
ATGTTTTTACCCGTTACACATCGCTGCAAGAAGAACCACATCCGTGTAATGGAGTTGCTGCTGAAGAC
AGGAGCCTCCATCGACGGTCACTGAGTCTGGCCTGACACCTCTCCACGTAGCCTCCTTCATGGGACAC
CTTCTATTGTGAAGAACTTACTGCAGCGGGGAGCGTCACCCAATGTCTCCAATGTGAAAGTAGAAACCC
CCTTGACATGGCAGCCGAGCAGGGCATAAGAGTGGCCAAATATTTGCTCCAGAACAAGCCAAAGC
CAACGCCAAGGCCAAGGATGACCAGACCCGCTTCACTGTGCTGCTCGAATCGGCCACACAGGCATGGTG
AAGCTCCTGCTGGAGAATGGTGCCAGCCCAATCTGGCTACCCTGCTGGCCACACACCCCTACACACCG



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CAGCCCGTGAGGGACACGTGGACACAGCCCTGGCCCTGCTGGAGAAGGAGGCATCCCAAGCCTGCATGAC
 CAAGAAAGGATTTACCCCTCTGCACGTGGCTGCTAAGTACGGGAAGGTACGGTTGGCCGGAGCTGCTGCTG
 GAACACGATGCACACCCCAATGCAGCTGGGAAGAACGGCTTGACTCCTCTGCATGTGGCCGTCCATCACA
 ACAACCTGGACATTGTCAAACCTCTTCTCCCCGAGGTGGCTCCCCCACAGCCCTGCCTGGAATGGCTA
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 TGCTACAGCACCAGGCAGATGTCAATGCCAAGACCAAGCTAGGATACAGCCCTTGACCAGGCAGCTCA
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 AGATCAGGAACAAGCATCTAAAGAATATGATGAGGATTCCTCATTCCCAGCAGCCCGGCCACAGAGACC
 TCAGACAACATTAGCCCTGTGGCTAGCCCGGTCCACACAGGGTTCCTGGTGGAGCTTCATGGTGGATGCC
 GAGGGGATCCATGAGAGGAAGCCGTCATAATGGCCTCAGGGTGGTATCCCTCCCCGGACATGCGCAGC
 ACCCACTCGCATCACCTGCCGCTCGTTAAGCCGACAGAAGCTGAACACGCCACCCCACTGGTGGAGAA
 GAGGGCTAGCCAGCAGGATCATTGCCCTGGGACCCACGGGGGCCAGTTCCTTAGCCCTGTGATCGTGG
 AAATCCCCATTTTGCCTCCATGGCCGTGGGGACCGTGAGCTGGTGGTCTGAGGAGTGAAGGAGGCTC
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 CAAGCTGGTACCCTGGTACAGGCAACGTTCCCTGAAAACGCTGTGACCAAGAAAGTGAAGCTGGCTCTG
 CAGGCCAGCCTGTCCCGGATGAGCTGGTACCAGCTCCTGGGTAAACCAGGCCACATTCAGCCCCATTG
 TGACCGTGGAGCCGAGGCGTCGGAAGTTCACCGTCCCATCGGGCTGCGAATCCCGCTCCCTCCCTCATG
 GACGGACAACCCAGGGACAGTGGGAGGGAGACACCACCAGCCTGCGCCTACTGTGTAGCGTCATCGGT
 GGAAGTACCAAGCCAGTGGGAAGATAAACGGGAACAACAACTTATATACGCCAATGAGTGTGCCA
 ACTTTACCACCAATGTCTCAGCCAGTTCCTGGCTGTCAGACTGTCCCGGACTGCGGAGGCTGTGCACTT
 TGCCACTCTCCTGTACAAGAGCTCACAGCAGTCCCCTACATGGCTAAGTTTGTCAATTTTGCCAAGATG
 AACGACGCTCGGGAAGGACGGCTCCGTTGCTACTGCATGACGGATGACAAAGTGGACAAGACCCTGGAGC
 AGCATGAAAACCTCGTGGAGGTGGCCCGGAGCAGGGACATAGAGGTTCTGGAAGGGATGCCTCTGTTTGC
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 CGAGAGAATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGCGAGCCAGGAGGGTCTTGTGCT
 TCCTACGAAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTACCTGAATATCACCATGCCCC
 CTGCACCAAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACCCCTGACCCTTCGATACAGCATT
 CTCAGCGAGTCGCGGCTGGGTTTTACCAGTGACACAGACCGTGTGAAAATGAGGATGGCTGTATCAGAG
 AACACCTCGGCCATAAGTGGGCAGAGCTGGCCCGGGAGCTGCAGTTCAGCGTGGAAAGACATCAACCGGAT
 CCGTGTAGAAAACCCCTAAGTCTTGTGGACCAGAGTACAGCCTTGTGACCCTTGGGTGGACCCTGAA
 GGCGAAAATGCAAAGATGGAGAATTTGTACACAGCCCTGCGGAACATCGACAGGAGTGAAGTTGTTAAAC
 TGTTGGAGGGCTCCGGCAGGACAGCAGAAACCTCAAACAGAGCGGAGACATGGGGACCGGGAGTACTC
 ATTGTACCCCTCCAGGTGAATGGTTACTCCTCGCTGCAGGACGAGCTGCTGTCCCCGCTCCCTGCAG
 TACGCTCTCCCTCTCCACTGTGTGACAGCAGTACTGGAACGAAGTGGCCGTATAGACGCCATCCCC
 TGGCGGCTACAGAGCATGACACCATGCTGGAGATGTCTGACATGCAGGTGTGGTCTGCGGGCCTCACACC
 CTCCTTGGTCACTGCTGAGGACTCCTCTGGAGTGCAGCAAGGTGAGGACTCTGACGCCATACCAGAG
 TGGAAAGTTGGAAGGGGCACACTCAGAGGACACGCAGGGCCGGAGCTGGGCTCTCAGGACCTGGTGGAGG
 ACGACACAGTGGATTAGATGCCACAAATGGCCTGGCAGATTTGCTAGGCCAGCAGCGAGTTACGCCCCG
 AATCACAGACTCACCTCAGTGAAGCAGGTGCTGGACAGAAGCCAGGCCAGAACTGGACTGGGATAAA
 CAGGGTTCCACAGCGGTACACCCGCAAGAAGCCACACAGAGCTCCTGGCAAGAGGAGTACGACAGGGCC
 CACTCATTCCAGAGAAGGATCACCACCATCAAGGGCCGGAGCCTGGTGCCTTCAGGAATACGAGCA

GGTGCTGGTGTCTACCAGGGAGCATGTGCAGAGGGGGCCACCTGAGACCGGCAGCCCCAAAGCTGGCAAG
GAACCTAGCCTGTGGGCACCTGAGAGCGCCTTCTCTCAAGAGGTGCAGGGGGATGAGCTTCAGAATATTC
CAGGAGAGCAGGTGACGGAGGAACAATTCACAGATGAACAGGGCAACATTGTTACCAAGAAGATCATTTCG
CAAAGTCGTCCGGCAGGTAGACTCGTCTGGTGCCATCGACACCCAGCAGCACGAGGAGGTGGAGCTAAGA
GGGAGTGGACTCCAGCCGGACCTGATAGAGGGCAGGAAGGGGGCTCAGATAGTGAAGCGGGCCAGCCTGA
AAAGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_031158

Insert Size: 5547 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_031158.4](#), [NP_112435.2](#)

RefSeq Size: 8179 bp

RefSeq ORF: 5547 bp

Locus ID: 11733

UniProt ID: [Q02357](#)

Cytogenetics: 8 11.42 cM

Gene Summary:

Attaches integral membrane proteins to cytoskeletal elements; binds to the erythrocyte membrane protein band 4.2, to Na-K ATPase, to the lymphocyte membrane protein GP85, and to the cytoskeletal proteins fodrin, tubulin, vimentin and desmin. Erythrocyte ankyrins also link spectrin (beta chain) to the cytoplasmic domain of the erythrocytes anion exchange protein; they retain most or all of these binding functions. In skeletal muscle, isoform Mu7 together with obscurin may provide a molecular link between the sarcoplasmic reticulum and myofibrils.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, represents use of an alternate promoter, initiates translation at an alternate start codon, and lacks an alternate in-frame segment compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus and lacks an alternate internal segment compared to isoform 1.