

## Product datasheet for **MC229678**

### Ank1 (NM\_001277289) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ank1 (NM\_001277289) 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:** >MC229678 representing NM\_001277289  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGAGCGGGCCGCGCAGGTCTGGGGTCAGACCCCGGGCCGATGCTGCTACCAGCTTTCTGCGGGCGG  
 CACGCTCGGGGAACCTGGACAAGGCTCTGGATCACCTGCGCAATGGAGTGGACATTAACACCTGTAACCA  
 GAACGGTTGAACGGCCTGCATCTGGCCTCCAAGAAGGCCATGTGAAGATGGTGGTTGAACTTCTGCAC  
 AAAGAGATCAATCTAGAAACGACAACCAAGAAGGGGAACACTGCTCTGCACATCGCTGCCCTTGCTGGTC  
 AGGATGAGGTGGTCCGGGAGCTGGTCAACTATGGAGCCAATGTCAATGCCAGTCTCAGAAAGGCTTTAC  
 TCCCCTGTACATGGCTGCTCAGGAGAACCCTTGGAAAGTGGTAAATTTCTACTGGAGAATGGAGCCAAT  
 CAGAATGTAGCCACAGAAGATGGCTTACCCCACTGGCCGTGGCTCTACAGCAGGGTCACGAGAATGTGG  
 TGGCTCACCTCATCAACTATGGGACGAAAGGAAAAGTGCCTCCCTGCCCTGCACATCGCGGCCCGCAA  
 CGATGACACACGGACAGCCGAGTCTTCTGCAGAATGACCCCAACCCAGATGTGCTTTCCAAGACGGGA  
 TTCACACCCCTCCACATCGCAGTCACTATGAGAACCTCAACGTGGCCAGTTGCTCCTCAACAGGGGAG  
 CCAGCGTCAACTCACACCTCAGAATGGCATCACCCCACTACACATCGCCTCCCGCAGGGGAACGTGAT  
 CATGGTGAGACTCCTGCTGGACCGAGGGGCTCAGATAGAAACGAGGACCAAGGATGAATTGACACCGCTC  
 CACTGTGCAGCTCGAATGGACACGTGAGAATCTCAGAGATCCTGCTGGACCACGGGGCACCCATCCAAG  
 CCAAAACCAAGAATGGCTTGTCCCAATCCACATGGCCGCTCAGGGAGACCACCTCGACTGTGTCCGACT  
 TCTATTGCAATACAATGCAGAGATAGACGACATCACCTTGGATCACCTGACTCCTCTCCAATGTGGCAGCC  
 CACTGTGGCCACCACGGGTGGCTAAGGTTCTTTTGGATAAAGGGGCCAAGCCCAACTCCAGAGCCCTGA  
 ATGTTTTTACCCGTTACACATCGCTGCAAGAAGAACCACATCCGTGTAATGGAGTTGCTGCTGAAGAC  
 AGGAGCCTCCATCGACGGGTCACTGAGTCTGGCCTGACACCTCTCCACGTAGCCTCCTTCATGGGACAC  
 CTTCTATTGTGAAGAACTTACTGCAGCGGGGAGCGTCACCCAATGTCTCCAATGTGAAAGTAGAAACCC  
 CCTTGACATGGCAGCCGAGCAGGGCATAAGAGTGGCCAAATATTTGCTCCAGAACAAGCCAAAGC  
 CAACGCCAAGGCCAAGGATGACCAGACCCGCTTCACTGTGCTGCTCGAATCGGCCACACAGGCATGGTG  
 AAGCTCCTGCTGGAGAATGGTGCCAGCCCAATCTGGCTACCACTGCTGGCCACACACCCCTACACACCG



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CAGCCCGTGAGGGACACGTGGACACAGCCCTGGCCCTGCTGGAGAAGGAGGCATCCCAAGCCTGCATGAC  
CAAGAAAGGATTTACCCCTCTGCACGTGGCTGCTAAGTACGGGAAGGTACGGTTGGCCGGAGCTGCTGCTG  
GAACACGATGCACACCCCAATGCAGCTGGGAAGAACGGCTTGACTCCTCTGCATGTGGCCGTCCATCACA  
ACAACCTGGACATTGTCAAACCTCTTCTCCCCGAGGTGGCTCCCCCACAGCCCTGCCTGGAATGGCTA  
CACTCCTTTGCACATCGCTGCCAAGCAGAACCAGATAGAGGTGGCCCGCAGTCTACTGCAGTACGGAGGG  
TCAGCGAATGCAGAGTCGGTACAAGGCGTGACCCCACTCACCTGGCTGCCAAGAGGGCCACACAGAAA  
TGTTGCTCTTCTCCTGTCCAAGCAAGCCAACGGCAACCTGGGGAACAAGAGTGGACTCACTCCCTCCA  
CCTGGTGTCAACAAGAAGGCCATGTTCCAGTGGCAGACGTGCTGATCAAACATGGCGTCACCGTGGATGCT  
ACCACCCGGATGGGTTACACCCCGCTCCATGTGGCCAGTCATTATGGAACATCAAGCTGGTGAAGTCTT  
TGCTACAGCACCAGGCAGATGTCAATGCCAAGACCAAGCTAGGATACAGCCCTTGACCAGGCAGCTCA  
ACAAGGACACACAGACATTGTGACATTGCTCCTGAAGAATGGTGTCTTCCAAATGAGGTGAGCTCGAAC  
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CAGATGAAACCAGTGTGGTGTAGTCAGTGACAAAACCCGGATGAGCTACCCTGAGACGGTGGACGAGAT  
CCTGGACGTGCTGAAGATGAAGGAACTGCTCACATATCTATAATGGGTGACGAACCTGTCGGCTCGAAG  
GCTGAAAGGCGGGACTCCCGGATGTGGGTGAGGAGAAAGAGCTGTTGGATTTTGTGCCGAAGCTAGACC  
AAGTGGTGGAGTCTCCAGCCATCCCAAGGATCCCTTGTGTACACCTGAGACCGTGTGATCCGATCTGA  
AGATCAGGAACAAGCATCTAAAGAATATGATGAGGATTCCTCATTCCCAGCAGCCCGGCCACAGAGACC  
TCAGACAACATTAGCCCTGTGGCTAGCCCGGTCCACACAGGGTTCCTGGTGGAGCTTCATGGTGGATGCC  
GAGGGGATCCATGAGAGGAAGCCGTCATAATGGCCTCAGGGTGGTATCCCTCCCCGGACATGCGCAGC  
ACCCACTCGCATCACCTGCCGCTCGTTAAGCCGACAGAAGCTGAACACGCCACCCCACTGGCTGAGGAA  
GAGGGCTAGCCAGCAGGATCATTGCCCTGGGACCCACGGGGCCAGTTCCTTAGCCCTGTGATCGTGG  
AAATCCCCATTTTGCCTCCCATGGCCGTGGGGACCGTGAGCTGGTGGTCTGAGGAGTGAAGGCGCTC  
TGTGTGGAAGGACACAAGAGTCGTTATGGGAAAGCTACCTGGACAGATCCTTAATGGCATGGATGAA  
GAGCTGGGGAGCCTGGAGGAGCTGGAGAAGAAAGTGTGTGCCGATCATCACCACCGACTCCCTCTGT  
ACTTTGTCATCATGTCCCGGCTCTGCCAGGACTACGACACCATCGGTCTGAAGGGGTTCCCTGAGAAG  
CAAGCTGGTACCCTGGTACAGGCAACGTTCCCTGAAAACGCTGTGACCAAGAAAGTGAAGCTGGCTCTG  
CAGGCCAGCCTGTCCCGGATGAGCTGGTACCAAGCTCCTGGGTAAACCAGGCCACATTCAGCCCCATTG  
TGACCGTGGAGCCGAGGCGTCGGAAGTTCACCGTCCCATCGGGCTGCGAATCCCGCTCCCTCCCTCATG  
GACGGACAACCCAGGGACAGTGGGAGGGAGACACCACCAGCCTGCGCCTACTGTGTAGCGTCATCGGT  
GGAAGTACCAAGCCAGTGGGAAGATAAACGGGAACAACAACTTATACGCCAATGAGTGTGCCA  
ACTTTACCACCAATGTCTCAGCCAGGTTCTGGCTGTCAGACTGTCCCGGACTGCGGAGGCTGTGCACTT  
TGCCACTCTCCTGTACAAGAGCTCACAGCAGTCCCCTACATGGCTAAGTTTGTCAATTTTGCCAAGATG  
AACGACGCTCGGGAAGGACGGCTCCGTTGCTACTGCATGACGGATGACAAAGTGGACAAGACCCTGGAGC  
AGCATGAAAACCTCGTGGAGGTGGCCCGGAGCAGGGACATAGAGGTTCTGGAAGGGATGCCTCTGTTTGC  
AGAAGTCTCTGGGAACCTGGTTCCTGTCAAGAAAGCGGCCAACAGCGGAGCTTCCATTTCCAGTCGTTT  
CGAGAGAATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGAGCCAGGAGGGTCTTGTGCT  
TCCTACGAAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTACCTGAATATCACCATGCCCC  
CTGCACCAAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACCCCTGACCCTCGATACAGCATT  
CTCAGCGAGTCGCGGCTGGGTTTTACCAGTGACACAGACCGTGTGAAAATGAGGATGGCTGTATCAGAG  
AACACCTCGGCCCTAAGCTGGGCAGAGCTGGCCCGGAGCTGCAGTTCAGCGTGGAAAGACATCAACCGGAT  
CCGTGTAGAAAACCCCTAACTCCTTGTGGACCAGAGTACAGCCTTGTGACCCTTGGGTGGACCCTGAA  
GGCGAAAATGCAAAGATGGAGAATTTGTACACAGCCCTGCGGAACATCGACAGGAGTGAATTTGTAACA  
TGTTGGAGGGCTCCGGCAGGCAGAGCAGAAACCTCAAACCAGAGCGGAGACATGGGGACCGGGAGTACTC  
ATTGTCACCCCTCCAGGTGAATGGTTACTCCTCGCTGCAGGACGAGCTGCTGTCCCCGCTCCCTGCAG  
TACGCTCTCCCTCTCCACTGTGTGCAGACCAGTACTGGAACGAAGTGGCCGTATAGACGCCATCCCC  
TGGCGGCTACAGAGCATGACACCATGCTGGAGATGTCTGACATGCAGGTGTGGTCTGCGGGCCTCACACC  
CTCCCTGGTCACTGCTGAGGACTCCTCTGTGGAGTGCAGCAAGGTGAGGACTCTGACGCCATACCAGAG  
TGGAAAGTTGGAAGGGGCACACTCAGAGGACACGCAGGGCCCGGAGCTGGGCTCTCAGGACCTGGTGGAGG  
ACGACACAGTGGATTAGATGCCACAAATGGCCTGGCAGATTTGCTAGGTGAGGAGGAAGGTGAGAGGTC  
AGAAAAGAAGAGGCAGGAAGTCTCAGGCACAGAGCAGGACACGGAGACTGAAGTGTCTCTTGTTCAGGC  
CAGCAGCGAGTTCAGCCCGAATCAGAGACTCACCCCTCAGTGAGGACAGGTGCTGGACAGAAGCCAGGCCA  
GAACACTGGACTGGGATAAACAGGGTCCACAGCGGTACACCCGCAAGAAGCCACACAGAGCTCCTGGCA

AGAGGAGGTCACGCAGGGCCCACTCATTCCAGAGAAGGATCACCACCATCCAAGGGCCGGAGCCTGGT  
GCGCTTCAGGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTGCAGAGGGGGCCACCTGAGACCG  
GCAGCCCCAAAGCTGGCAAGGAACCTAGCCTGTGGGCACCTGAGAGCGCCTTCTCTCAAGAGGTGCAGGG  
GGATGAGCTTCAGAATATTCCAGGAGAGCAGGTGACGGAGGAACAATTCACAGATGAACAGGGCAACATT  
GTTACCAAGAAGATCATTGCAAGTCGTCGGCAGGTAGACTCGTCTGGTGCCATCGACACCCAGCAGC  
ACGAGGAGGTGGAGCTAAGAGGGAGTGGACTCCAGCCGGACCTGATAGAGGGCAGGAAGGGGGCTCAGAT  
AGTGAAGCGGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001277289
<b>Insert Size:</b>	5637 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001277289.2</a></u> , <u><a href="#">NP_001264218.1</a></u>
<b>RefSeq Size:</b>	8269 bp
<b>RefSeq ORF:</b>	5637 bp
<b>Locus ID:</b>	11733
<b>UniProt ID:</b>	<u><a href="#">Q02357</a></u>
<b>Cytogenetics:</b>	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 (7) differs in the 5' UTR, represents use of an alternate promoter compared and initiates translation at an alternate start codon to variant 1. The encoded isoform (7) has a shorter and distinct N-terminus compared to isoform 1.