

## Product datasheet for MC229674

### Ank1 (NM\_001277286) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ank1 (NM\_001277286) 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:** >MC229674 representing NM\_001277286  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGAGCGGGCCGCGCAGGTCGGGGTCAGACCCCGGGCCGATGCTGCTACCAGCTTTCTGCGGGCGG  
 CACGCTCGGGGAACCTGGACAAGGCTCTGGATCACCTGCGCAATGGAGTGGACATTAACACCTGTAACCA  
 GAACGGTTGAACGGCCTGCATCTGGCCTCAAAGAAGGCCATGTGAAGATGGTGGTTGAACTTCTGCAC  
 AAAGAGATCAATCTAGAAACGACAACCAAGAAGGGGAACACTGCCTCTGCACATCGCTGCCCTTGCTGGTC  
 AGGATGAGGTGGTCCGGGAGCTGGTCAACTATGGAGCCAATGTCAATGCCAGTCTCAGAAAGGCTTTAC  
 TCCCCTGTACATGGCTGCTCAGGAGAACCCTTGGAAAGTGGTAAATTTCTACTGGAGAATGGAGCCAAT  
 CAGAATGTAGCCACAGAAGATGGCTTACCCCACTGGCCGTGGCTCTACAGCAGGGTCACGAGAATGTGG  
 TGGCTCACCTCATCAACTATGGGACGAAAGGAAAAGTGCCTCCCTGCCCTGCACATCGCGGCCCGCAA  
 CGATGACACACGGACAGCCGAGTCTTCTGCAGAATGACCCCAACCCAGATGTGCTTTCCAAGACGGGA  
 TTCACACCCCTCCACATCGCAGTCACTATGAGAACCTCAACGTGGCCAGTTGCTCCTCAACAGGGGAG  
 CCAGCGTCAACTCACACCTCAGAATGGCATCACCCACTACACATCGCCTCCCGCAGGGGAACGTGAT  
 CATGGTGAGACTCCTGCTGGACCGAGGGGCTCAGATAGAAACGAGGACCAAGGATGAATTGACACCGCTC  
 CACTGTGCAGCTCGAATGGACACGTGAGAATCTCAGAGATCCTGCTGGACCACGGGGCACCCATCCAAG  
 CCAAAACCAAGAATGGCTTGTCCCAATCCACATGGCCGCTCAGGGAGACCACCTCGACTGTGTCCGACT  
 TCTATTGCAATACAATGCAGAGATAGACGACATCACCTTGGATCACCTGACTCCTCTCCATGTGGCAGCC  
 CACTGTGGCCACCACGGGTGGCTAAGGTTCTTTTGGATAAAGGGGCCAAGCCCAACTCCAGAGCCCTGA  
 ATGTTTTTACCCGTTACACATCGCTGCAAGAAGAACCACATCCGTGTAATGGAGTTGCTGCTGAAGAC  
 AGGAGCCTCCATCGACGGGTCACTGAGTCTGGCCTGACACCTCTCCACGTAGCCTCCTTCATGGGACAC  
 CTTCTATTGTGAAGAACTTACTGCAGCGGGGAGCGTCACCCAATGTCTCCAATGTGAAAGTAGAAACCC  
 CCTTGCACATGGCAGCCGAGCAGGGCATAAGAGTGGCCAAATATTTGCTCCAGAACAAGCCAAAGC  
 CAACGCCAAGGCCAAGGATGACCAGACCCGCTTCACTGTGCTGCTCGAATCGGCCACACAGGCATGGTG  
 AAGCTCCTGCTGGAGAATGGTGCCAGCCCAATCTGGCTACCCTGCTGGCCACACACCCCTACACACCG



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CAGCCCGTGAGGGACACGTGGACACAGCCCTGGCCCTGCTGGAGAAGGAGGCATCCCAAGCCTGCATGAC  
 CAAGAAAGGATTTACCCCTCTGCACGTGGCTGCTAAGTACGGGAAGGTACGGTTGGCCGGAGCTGCTGCTG  
 GAACACGATGCACACCCCAATGCAGCTGGGAAGAACGGCTTGACTCCTCTGCATGTGGCCGTCCATCACA  
 ACAACCTGGACATTGTCAAACCTCTTCTCCCCGAGGTGGCTCCCCCACAGCCCTGCCTGGAATGGCTA  
 CACTCCTTTGCACATCGCTGCCAAGCAGAACCAGATAGAGGTGGCCCGCAGTCTACTGCAGTACGGAGGG  
 TCAGCGAATGCAGAGTCGGTACAAGGCGTGACCCCACTCACCTGGCTGCCAAGAGGGCCACACAGAAA  
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 AAGTGGTGGAGTCTCCAGCCATCCCAAGGATCCCTTGTGTACACCTGAGACCGTGTGATCCGATCTGA  
 AGATCAGGAACAAGCATCTAAAGAATATGATGAGGATTCCTCATTCCCAGCAGCCCGGCCACAGAGACC  
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 GAGGGGGATCCATGAGAGGAAGCCGTCATAATGGCCTCAGGGTGGTATCCCTCCCCGGACATGCGCAGC  
 ACCCACTCGCATCACCTGCCGCTCGTTAAGCCGACAGAAGCTGAACACGCCACCCCACTGGCTGAGGAA  
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 CAAGCTGGTACCCTGGTACAGGCAACGTTCCCTGAAAACGCTGTGACCAAGAAAGTGAAGCTGGCTCTG  
 CAGGCCAGCCTGTCCCGGATGAGCTGGTACCAGCTCCTGGTAACCAGGCCACATTCAGCCCCATTG  
 TGACCGTGGAGCCGAGGCGTCGGAAGTTCACCGTCCCATCGGGCTGCGAATCCCGCTCCCTCCCTCATG  
 GACGGACAACCCAGGGACAGTGGGAGGGAGACACCACCAGCCTGCGCCTACTGTGTAGCGTCATCGGT  
 GGAAGTACCAAGCCAGTGGGAAGATAAACGGGAACAACCAAACTTATACGCCAATGAGTGTGCCA  
 ACTTTACCACCAATGTCTCAGCCAGTTCCTGGCTGTCAGACTGTCCCGGACTGCGGAGGCTGTGCACTT  
 TGCCACTCTCCTGTACAAGAGCTCACAGCAGTCCCCTACATGGCTAAGTTTGTCAATTTTGCCAAGATG  
 AACGACGCTCGGGAAGGACGGCTCCGTTGCTACTGCATGACGGATGACAAAGTGGACAAGACCCTGGAGC  
 AGCATGAAAACCTCGTGGAGGTGGCCCGGAGCAGGGACATAGAGGTTCTGGAAGGGATGCCTCTGTTTGC  
 AGAAGTCTCTGGGAACCTGGTTCCTGTCAAGAAAGCGGCCAACAGCGGAGCTTCATTTCCAGTCGTTT  
 CGAGAGAATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGCGAGCCAGGAGGGTTCTTGTCTG  
 TCCTACGAAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTACCTGAATATCACCATGCCCC  
 CTGCACCAAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACCCCTGACCCTTCGATACAGCATT  
 CTCAGCGAGTCGCGGCTGGTTTTACCAGTGACACAGACCGTGTGAAATGAGGATGGCTGTATCAGAG  
 AACACCTCGGCCCTAAGCTGGGCAGAGCTGGCCCGGAGCTGCAGTTCAGCGTGGAAAGACATCAACCGGAT  
 CCGTGTAGAAAACCCCTAACTCCTTGTGGACCAGAGTACAGCCTTGTGACCCTTGGGTGGACCCTGAA  
 GGCGAAAATGCAAAGATGGAGAATTTGTACACAGCCCTGCGGAACATCGACAGGAGTGAATTTGTAACA  
 TGTTGGAGGGCTCCGGCAGGACAGCAGAAACCTCAAACAGAGCGGAGACATGGGGACCGGGAGTACTC  
 ATTGTACCCCTCCAGGTGAATGGTTACTCCTCGCTGCAGGACGAGCTGCTGTCCCCGCTCCCTGCAG  
 TACGCTCTCCCTCTCCACTGTGTGCAGACCAGTACTGGAACGAAGTGGCCGTATAGACGCCATCCCC  
 TGGCGGCTACAGAGCATGACACCATGCTGGAGATGTCTGACATGCAGGTGTGGTCTGCGGGCCTCACACC  
 CTCCTTGGTCACTGCTGAGGACTCCTCTGGAGTGCAGCAAGGTGAGGACTCTGACGCCATACCAGAG  
 TGGAAAGTTGGAAGGGGCACACTCAGAGGACACGCAGGGCCCGGAGCTGGGCTCTCAGGACCTGGTGGAGG  
 ACGACACAGTGGATTAGATGCCACAAATGGCCTGGCAGATTTGCTAGGTGAGGAGGAAGGCCAGCAGCG  
 AGTTACGCCCGAATCACAGACTCACCCCTCAGTGGAGGAGGTGCTGGACAGAAGCCAGGCCAGAACACTG  
 GACTGGGATAAACAGGGTTCCACAGCGGTACACCCGCAAGAAGCCACACAGAGCTCTGGCAAGAGGAGG  
 TCACGCAGGGCCACACTCATTCCAGAGAAGGATCACCACCATCCAAGGGCCGGAGCCTGGTGGCTTCA

GGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTGCAGAGGGGGCCACCTGAGACCGGCAGCCCC  
 AAAGCTGGCAAGGAACCTAGCCTGTGGGCACCTGAGAGCGCCTTCTCTCAAGAGGTGCAGGGGGATGAGC  
 TTCAGAAATATCCAGGAGAGCAGGTGACGGAGGAACAATTCACAGATGAACAGGGCAACATTGTTACCAA  
 GAAGATCATTCCGAAAGTCGTCCGGCAGGTAGACTCGTCTGGTGCCATCGACACCCAGCAGCAGGAGGAG  
 GTGGAGCTAAGAGGGAGTGGACTCCAGCCGGACCTGATAGAGGGCAGGAAGGGGGCTCAGATAGTGAAGC  
 GGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001277286
<b>Insert Size:</b>	5559 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_001277286.2</a></u> , <u><a href="#">NP_001264215.1</a></u>
<b>RefSeq Size:</b>	8191 bp
<b>RefSeq ORF:</b>	5559 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 (6) 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 (6) has a shorter and distinct N-terminus and lacks an alternate internal segment compared to isoform 1.