

Product datasheet for **MC229660**

Ank1 (NM_001277280) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ank1 (NM_001277280) 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: >MC229660 representing NM_001277280
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCAGGCGGCCAAACAGCTGAAGAAAATCAAAGACATCGAGGCGCAGGCCCTCCAGGAGCAGAAGG
 AGAAGGAGGAATCCAACAGGAAGCGGCCGAACCGCTCCCGTGACCGAAGAAGAAGGCCGATGCTGCTAC
 CAGCTTTCTGCGGGCGGCACGCTCGGGGAACCTGGACAAGGCTCTGGATCACCTGCGCAATGGAGTGGAC
 ATTAACACCTGTAACAGAACGGTTGAACGGCTGCATCTGGCTCCAAGAAGGCCATGTGAAGATGG
 TGGTTGAACCTTCTGCACAAAGAGATCATTCTAGAAACGACAACCAAGAAGGGGAACACTGCTCTGCACAT
 CGCTGCCCTTGCTGGTCAGGATGAGGTGGTCCGGGAGCTGGTCAACTATGGAGCCAATGTCAATGCCAG
 TCTCAGAAAGGCTTTACTCCCCTGTACATGGCTGCTCAGGAGAACCCTTGAAGTGGTGAATTTCTAC
 TGGAGAATGGAGCCAATCAGAAATGTAGCCACAGAAGATGGCTTCACCCCACTGGCCGTGGCTCTACAGCA
 GGGTCACGAGAAATGTGGTGGCTCACCTCATCAACTATGGGACGAAAGGGAAAGTGCCTCCCTGCCCTG
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 TGCTTTCCAAGACGGGATTCACACCCCTCCACATCGCAGCTCACTATGAGAACCTCAACGTGGCCAGTT
 GCTCCTCAACAGGGGAGCCAGCGTCAACTTCACACCTCAGAATGGCATCACCCCACTACACATCGCCTCC
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 CGGGGCACCCATCCAAGCCAAAACCAAGAATGGCTTGTCCCAATCCACATGGCCGCTCAGGGAGACCAC
 CTCGACTGTGTCGACTTCTATTGCAATAAATGCAGAGATAGACGACATCACCTTGATCACCTGACTC
 CTCTCCATGTGGCAGCCACTGTGGCCACCACCGGTGGCTAAGGTTCTTTGGATAAAGGGGCCAAGCC
 CAACTCCAGAGCCCTGAATGGTTTTACCCGTTACACATCGCCTGCAAGAAGAACCACATCCGTGTAATG
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 CCTCCTTCATGGGACACCTTCTATTGTGAAGAACTTACTGCAGCGGGGAGCGTCAACCAATGTCTCCAA
 TGTGAAAGTAGAAACCCCTTGACATGGCAGCCCGAGCAGGGCATAAGAAAGTGGCCAAATATTTGCTC
 CAGAACAAGCCAAAGCCAACGCCAAGGCCAAGGATGACCAGACACCGCTTCACTGTGCTGCTCGAATCG



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GCCACACAGGCATGGTGAAGCTCCTGCTGGAGAATGGTGCCAGCCCAATCTGGCTACCACTGCTGGCCA
 CACACCCCTACACACCGCAGCCCGTGAGGGACACGTGGACACAGCCCTGGCCCTGCTGGAGAAGGAGGCA
 TCCAAGCCTGCATGACCAAGAAAGGATTTACCCCTCTGCACGTGGCTGCTAAGTACGGGAAGGTACGGT
 TGGCGGAGCTGCTGCTGGAACACGATGCACACCCCAATGCAGCTGGGAAGAACGGCTTGACTCCTCTGCA
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 CCTGCCTGGAATGGCTACACTCCTTTGCACATCGCTGCCAAGCAGAACCAGATAGAGGTGGCCCGCAGTC
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 AGAGGGCCACACAGAAATGGTTGCTTCTCTCTGTCCAAGCAAGCCAACGGCAACCTGGGAACAAGAGT
 GGACTCACTCCCCCTCCACCTGGTGTACAGAAGGCCATGTTCCAGTGGCAGACGTGCTGATCAAACATG
 GCGTCACCGTGGATGCTACCACCCGGATGGGTTACACCCCGCTCCATGTGGCCAGTCATTATGGAACAT
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 GGAGTCTCCAGCCATCCAAGGATCCCTTGTGTACACCTGAGACCGTTGTGATCCGATCTGAAGATCAG
 GAACAAGCATCTAAAGAATATGATGAGGATTCCTCATTCCCAGCAGCCCGGCCACAGAGACCTCAGACA
 ACATTAGCCCTGTGGTAGCCCGGTCCACACAGGGTTCCTGGTGAAGTTCATGGTGGATGCCCGAGGGGG
 ATCCATGAGAGGAAGCCGTCATAATGGCCTCAGGGTGGTATCCCTCCCCGGACATGCGCAGCACCCT
 CGCATCACCTGCCGCTCGTTAAGCCGACAGAGCTGAACACGCCACCCCACTGGCTGAGGAAGAGGGCC
 TAGCCAGCAGGATCATTGCCCTGGGACCCAGGGGGCCAGTTCCTTAGCCCTGTGATCTGGAAATCCC
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 GTACCGCTGGTACAGGCAACGTTCCCTGAAAACGCTGTGACCAAGAAAGTGAAGCTGGCTCTGCAGGCC
 AGCCTGTCCCGGATGAGCTGGTACCAAGCTCCTGGTAACCAGGCCACATTAGCCCTTGTGACCGT
 GGAGCCGAGGCGTCGGAAGTTCACCGTCCCATCGGGTGCGAATCCCGCTCCCTCCCTCATGGACGGAC
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 CACCAATGTCTCAGCCAGGTTCTGGCTGTGACACTGTCCCGGACTGCGGAGGCTGTGACTTTGCCACT
 CTCTGTACAAAGAGCTCACAGCAGTCCCTACATGGCTAAGTTTGTCAATTTTGCCAAGATGAACGACG
 CTCGGGAAGGACGGCTCCGTTGCTACTGCATGACGGATGACAAAGTGGACAAGACCTGGAGCAGCATGA
 AAATTCGTGGAGGTGGCCCGGAGCAGGGACATAGAGGTTCTGGAAGGGATGCCTCTGTTTGCAAACTC
 TCTGGAACTTGGTTCCTGTCAAGAAAGCGGCCAACAGCGGAGCTTCCATTTCCAGTCGTTTCGAGAGA
 ATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGCGAGCCAGGAGGGTCTTGTGCTTCTACG
 AAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTACCTGAATATCACCATGCCCCCTGCACC
 AAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACCCCTGACCCTTCGATACAGCATTCTCAGCG
 AGTCGCGGCTGGGTTTTACCAGTGACACAGACCGGTGTCGAAATGAGGATGGCTGTGATCAGAGAACACT
 CGGCCTAAGCTGGGCAGAGCTGGCCCGGAGCTGCAGTTCAGCGTGAAGACATCAACCGGATCCGTGTA
 GAAAACCTAACTCCTTGTGGACCAGAGTACAGCCTTGTGACCCTCTGGGTGGACCGTGAAGGCGAAA
 ATGCAAAGATGGAGAATTTGTACACAGCCCTGCGGAACATCGACAGGAGTGAAGTTGTTAACATGTTGGA
 GGGCTCCGGCAGGACAGCAGAAACCTCAAACCAGAGCGGAGACATGGGGACCGGAGTACTCATTGTCA
 CCCTCCCAGGTGAATGGCCAGCAGCGAGTTCACGCCCCAATCACAGACTCACCTCAGTGAGGCAGGTGC
 TGGACAGAAGCCAGGCCAGAACACTGGACTGGGATAAACAGGGTTCACACAGCGGTACACCCGCAAGAAGC
 CACACAGAGCTCCTGGCAAGAGGAGGTACGCAGGGCCACACTATTCCAGAGAAGGATCACCACCATC
 CAAGGGCCGAGCCTGGTGCCTTCAGGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTGCAGA
 GGGGGCCACCTGAGACCGGCAGCCCAAAGCTGGCAAGGAACCTAGCCTGTGGGCACCTGAGAGCGCCTT
 CTCTCAAGAGGTGACGGGGATGAGCTTCAAGATATTCCAGGAGAGCAGGTGACGGAGGAACAATTCACA
 GATGAACAGGGCAACATTGTTACCAAGAAGATCATTTCGAAAGTCGTCCGGCAGGTAGACTCGTCTGGT
 CCATCGACACCCAGCAGCAGGAGGTGGAGCTAAGAGGGAGTGGACTCCAGCCGGACCTGATAGAGGG

CAGGAAGGGGGCTCAGATAGTGAAGCGGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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| Restriction Sites: | Sgfl-MluI |
| ACCN: | NM_001277280 |
| Insert Size: | 5235 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). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <u>NM_001277280.2</u> , <u>NP_001264209.1</u> |
| RefSeq Size: | 7794 bp |
| RefSeq ORF: | 5235 bp |
| Locus ID: | 11733 |
| UniProt ID: | <u>Q02357</u> |
| Cytogenetics: | 8 11.42 cM |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon and uses an alternate in-frame splice junction in a 3' exon compared to variant 1. The resulting isoform (3) has the same N- and C-termini but lacks two alternate internal segments compared to isoform 1.</p> |