

Product datasheet for MC229679

Ank1 (NM_001277284) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ank1 (NM_001277284) 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: >MC229679 representing NM_001277284
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCTTCTGTAAGCCGATGCTGCTACCAGCTTTCTGCGGGCGGCACGCTCGGGGAACCTGGACAAGG
 CTCTGGATCACCTGCGCAATGGAGTGGACATTAACACCTGTAACCAGAACGGGTTGAACGGCCTGCATCT
 GGCTCCAAAGAAGGCCATGTGAAGATGGTGGTTGAACCTTCTGCACAAAGAGATCATTCTAGAAACGACA
 ACCAAGAAGGGGAACACTGCTCTGCACATCGCTGCCCTTCTGCTGGTCAGGATGAGGTGGTCCGGGAGCTGG
 TCAACTATGGAGCCAATGTCAATGCCAGTCTCAGAAAGGCTTTACTCCCTGTACATGGCTGCTCAGGA
 GAACCACTTGAAGTGGTGAATTTCTACTGGAGAATGGAGCCAATCAGAATGTAGCCACAGAAGATGGC
 TTCACCCCACTGGCCGTGGCTCTACAGCAGGGTACGAGAATGTGGTGGCTCACCTCATCAACTATGGGA
 CGAAAGGGAAAGTGCCTCCCTGCCCTGCACATCGCGGCCCGCAACGATGACACACGGACAGCCGAGT
 CCTTCTGCAGAATGACCCCAACCCAGATGTGCTTTCCAAGACGGGATTACACCCCTCCACATCGCAGCT
 CACTATGAGAACCTCAACGTGGCCAGTTGCTCCTCAACAGGGGAGCCAGCGTCAACTTCACACCTCAGA
 ATGGCATCACCCACTACACATCGCTCCCGCAGGGGGAACGTGATCATGGTGGAGACTCTGCTGGACCG
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 CCTGCAAGAAGAACACATCCGTGTAATGGAGTGTGCTGCTGAAGACAGGAGCCTCCATCGACGGGTAC
 TGAGTCTGGCCTGACACCTCTCCACGTAGCCTCCTTCATGGACACCTTCTATTGTGAAGAACTTACTG
 CAGCGGGGAGCGTACCCCAATGTCTCCAATGTGAAAGTAGAAACCCCTTGCACATGGCAGCCCGAGCAG
 GGCATACAGAAGTGGCCAAATTTTGTCCAGAACAAAGCCAAAGCCAAAGCCAAAGGCAAGGATGACCA
 GACACCGCTTCACTGTGCTGCTCGAATCGGCCACACAGGCATGGTGAAGCTCCTGCTGGAGAATGGTGC
 AGCCCAATCTGGCTACCACTGCTGGCCACACCCCTACACACCCGACCCCGTGAAGGACAGCTGGACA



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CAGCCCTGGCCCTGCTGGAGAAGGAGGCATCCCAAGCCTGCATGACCAAGAAAGGATTTACCCCTCTGCA
 CGTGGCTGCTAAGTACGGGAAGGTACGGTTGGCCGAGCTGCTGCTGGAACACGATGCACACCCCAATGCA
 GCTGGGAAGAACGGCTTGACTCCTCTGCATGTGGCCGTCATCACAACAACCTGGACATTGTCAAACCTC
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 GCAGAACCAGATAGAGGTGGCCCGCAGTCTACTGCAGTACGGAGGGTACGCGAATGCAGAGTCGGTACAA
 GCGCTGACCCCACTTACCTGGCTGCCAAGAGGGCCACACAGAAATGGTTGCTCTTCTCCTGTCCAAGC
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 CCTACTGTGTAGCGTCATCGGTGAACTGACCAAGCCAGTGGGAAGATATAACGGGAACAACAAACTT
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 GGACTGCGGAGGCTGTGCACTTTGCCACTCTCCTGTACAAGAGCTCACAGCAGTCCCCTACATGGCTAA
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 GAGCTTCCATTTCCAGTCGTTTTCGAGAGAATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGC
 GAGCCAGGAGGGTCTTGTGCTTCTACGAAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTC
 ACCTGAATATCACCATGCCCCCTGCACCAAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACC
 CCTGACCCTTCGATACAGCATTCTCAGCGAGTCGCGGCTGGGTTTTACCAGTGACACAGACCGTGTGCA
 ATGAGGATGGCTGTGATCAGAGAACACCTCGCCCTAAGCTGGGCAGAGCTGGCCCGGAGTGCAGTTCA
 GCGTGGAAGACATCAACCGGATCCGTGTAGAAAACCTAACTCCTTGTGGACCAGAGTACAGCCTTGT
 GACCCCTGTGGTGGACCGTGAAGGCGAAAATGCAAAGTGGAGAATTTGTACACAGCCCTGCGGAACATC
 GACAGGAGTGAGATTGTTAACATGTTGGAGGGCTCCGGCAGGCAGAGCAGAAAACCTCAAACCAGAGCGGA
 GACATGGGACCGGGAGTACTATTGTACCCTCCAGGTGAATGGTTACTCCTCGTGCAGGACGAGCT
 GCTGTCCCCCGCTCCCTGCAGTACGCTCTCCCTCTCCACTGTGTGCAGACCAGTACTGGAACGAAGTG
 GCCGTATAGACGCCATCCCCCTGGCGGTACAGAGCATGACACCATGCTGGAGATGTCTGACATGCAGG
 TGTGGTCTGCGGGCCTCACACCCTCCCTGGTCACTGCTGAGGACTCCTCTCTGGAGTGCAGCAAGGCTGA
 GGACTCTGACGCCATACCAGAGTGAAGTTGGAAGGGGCACACTCAGAGGACACGCAGGGCCCGGAGCTG
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 GTCAGGAGGAAGGTGAGAGTGCAGAAAAGAAGAGGAGGAGTCTCAGGCACAGAGCAGGACACGGAGAC
 TGAAGTGTCTTGTGTTTTCAGGCCAGCAGCGAGTTCACGCCGAATCACAGACTCACCCCTCAGTGAGGCGAG
 GTGCTGGACAGAAGCCAGGCCAGAACACTGGACTGGGATAAACAGGGTTCCACAGCGGTACACCCGCAAG
 AAGCCACACAGAGCTCCTGGCAAGAGGAGGTACGCAGGGCCCACTCATTCCAGAGAAGGATCACCCAC

CATCCAAGGGCCGAGCCTGGTGCCTTCAGGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTG
 CAGAGGGGGCCACCTGAGACCGGCAGCCCCAAAGCTGGCAAGGAACCTAGCCTGTGGGCACCTGAGAGCG
 CTTTCTCTCAAGAGGTGCAGGGGGATGAGCTTCAGAATATTCCAGGAGAGCAGGTGACGGAGGAACAATT
 CACAGATGAACAGGGCAACATTGTTACCAAGAAGATCATTCGCAAAGTCGTCCGGCAGGTAGACTCGTCT
 GGTGCCATCGACACCCAGCAGCACGAGGAGGTGATTGTCGAGGGTCCCTGGCAGACCCTGGGGATCTGG
 AAGCAGATATTGAGTCCTTTATGAACTTACTAAGGTGGAGCTAAGAGGGAGTGGACTCCAGCCGGACCT
 GATAGAGGGCAGGAAGGGGGCTCAGATAGTGAAGCGGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001277284
- Insert Size:** 5664 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:**
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_001277284.2](#), [NP_001264213.1](#)
- RefSeq Size:** 8055 bp
- RefSeq ORF:** 5664 bp
- Locus ID:** 11733
- 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 (5) has an alternate 5' exon, 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 (5) has a shorter and distinct N-terminus, lacks an alternate internal segment, and contains an alternate internal segment compared to isoform 1.