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# 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 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC229679 representing NM_001277284
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTTCTGTAAAGCCGATGCTGCTACCAGCTTTCTGCGGGCGGCACGCTCGGGGAACCTGGACAAGG
CTCTGGATCACCTGCGCAATGGAGTGGACATTAACACCTGTAACCAGAACGGGTTGAACGGCCTGCATCT
GGCCTCCAAAGAAGGCCATGTGAAGATGGTGGTTGAACTTCTGCACAAAGAGATCATTCTAGAAACGACA
ACCAAGAAGGGGAACACTGCTCTGCACATCGCTGCCCTTGCTGGTCAGGATGAGGTGGTCCGGGAGCTGG
TCAACTATGGAGCCAATGTCAATGCCCAGTCTCAGAAAGGCTTTACTCCCCTGTACATGGCTGCTCAGGA
GAACCACTTGGAAGTGGTGAAATTTCTACTGGAGAATGGAGCCAATCAGAATGTAGCCACAGAAGATGGC
TTCACCCCACTGGCCGTGGCTCTACAGCAGGGTCACGAGAATGTGGTGGCTCACCTCATCAACTATGGGA
CGAAAGGGAAAGTGCGCCTCCCTGCCCTGCACATCGCGGCCCGCAACGATGACACACGGACAGCCGCAGT
CCTTCTGCAGAATGACCCCAACCCAGATGTGCTTTCCAAGACGGGATTCACACCCCTCCACATCGCAGCT
CACTATGAGAACCTCAACGTGGCCCAGTTGCTCCTCAACAGGGGAGCCAGCGTCAACTTCACACCTCAGA
ATGGCATCACCCCACTACACATCGCCTCCCGCAGGGGGAACGTGATCATGGTGAGACTCCTGCTGGACCG
AGGGGCTCAGATAGAAACGAGGACCAAGGATGAATTGACACCGCTCCACTGTGCAGCTCGGAATGGACAC
GTGAGAATCTCAGAGATCCTGCTGGACCACGGGGCACCCATCCAAGCCAAAACCAAGAATGGCTTGTCCC
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AGACGACATCACCTTGGATCACCTGACTCCTCTCCATGTGGCAGCCCACTGTGGCCACCACCGGGTGGCT
AAGGTTCTTTTGGATAAAGGGGCCAAGCCCAACTCCAGAGCCCTGAATGGTTTTACCCCGTTACACATCG
CCTGCAAGAAGAACCACATCCGTGTAATGGAGTTGCTGCTGAAGACAGGAGCCTCCATCGACGCGGTCAC
TGAGTCTGGCCTGACACCTCTCCACGTAGCCTCCTTCATGGGACACCTTCCTATTGTGAAGAACTTACTG
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GGCATACAGAAGTGGCCAAATATTTGCTCCAGAACAAAGCCAAAGCCAACGCCAAGGCCAAGGATGACCA
GACACCGCTTCACTGTGCTGCTCGAATCGGCCACACAGGCATGGTGAAGCTCCTGCTGGAGAATGGTGCC
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AGCCCCAATCTGGCTACCACTGCTGGCCACACACCCCTACACACCGCAGCCCGTGAGGGACACGTGGACA
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CGTGGCTGCTAAGTACGGGAAGGTACGGTTGGCGGAGCTGCTGCTGGAACACGATGCACACCCCAATGCA
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TTCTTCCCCGAGGTGGCTCCCCCCACAGCCCTGCCTGGAATGGCTACACTCCTTTGCACATCGCTGCCAA
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GATTTTGTGCCGAAGCTAGACCAAGTGGTGGAGTCTCCAGCCATCCCAAGGATCCCTTGTGTCACACCTG
AGACCGTTGTGATCCGATCTGAAGATCAGGAACAAGCATCTAAAGAATATGATGAGGATTCCCTCATTCC
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CAAGAAAGTGAAGCTGGCTCTGCAGGCCCAGCCTGTCCCGGATGAGCTGGTGACCAAGCTCCTGGGTAAC
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AAAGTGGACAAGACCCTGGAGCAGCATGAAAACTTCGTGGAGGTGGCCCGGAGCAGGGACATAGAGGTTC
TGGAAGGGATGCCTCTGTTTGCAGAACTCTCTGGGAACTTGGTTCCTGTCAAGAAAGCGGCCCAACAGCG
GAGCTTCCATTTCCAGTCGTTTCGAGAGAATCGTCTGGCCATCCCCGTGAAGGTGAGGGACAGCAGCCGC
GAGCCAGGAGGGTTCTTGTCGTTCCTACGAAAGACAATGAAGTACGAGGACACACAGCACATCCTCTGTC
ACCTGAATATCACCATGCCCCCCTGCACCAAGGGCAGTGGAGCAGAAGACAGGAGAAGGACCCTGACACC
CCTGACCCTTCGATACAGCATTCTCAGCGAGTCGCGGCTGGGTTTTACCAGTGACACAGACCGTGTCGAA
ATGAGGATGGCTGTCATCAGAGAACACCTCGGCCTAAGCTGGGCAGAGCTGGCCCGGGAGCTGCAGTTCA
GCGTGGAAGACATCAACCGGATCCGTGTAGAAAACCCTAACTCCTTGTTGGACCAGAGTACAGCCTTGCT
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GACATGGGGACCGGGAGTACTCATTGTCACCCTCCCAGGTGAATGGTTACTCCTCGCTGCAGGACGAGCT
GCTGTCCCCCGCCTCCCTGCAGTACGCTCTCCCCTCTCCACTGTGTGCAGACCAGTACTGGAACGAAGTG
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GTCAGGAGGAAGGTCAGAGGTCAGAAAAGAAGAGGCAGGAAGTCTCAGGCACAGAGCAGGACACGGAGAC
TGAAGTGTCTCTTGTTTCAGGCCAGCAGCGAGTTCACGCCCGAATCACAGACTCACCCTCAGTGAGGCAG
GTGCTGGACAGAAGCCAGGCCAGAACACTGGACTGGGATAAACAGGGTTCCACAGCGGTACACCCGCAAG

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AAGCCACACAGAGCTCCTGGCAAGAGGAGGTCACGCAGGGCCCACACTCATTCCAGAGAAGGATCACCAC
CATCCAAGGGCCGGAGCCTGGTGCGCTTCAGGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTG
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CCTTCTCTCAAGAGGTGCAGGGGGATGAGCTTCAGAATATTCCAGGAGAGCAGGTGACGGAGGAACAATT
CACAGATGAACAGGGCAACATTGTTACCAAGAAGATCATTCGCAAAGTCGTCCGGCAGGTAGACTCGTCT
GGTGCCATCGACACCCAGCAGCACGAGGAGGTGATTGTCGAGGGTCCCCTGGCAGACCCTGGGGATCTGG
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GATAGAGGGCAGGAAGGGGGCTCAGATAGTGAAGCGGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

| | |
|---|---|
| **Restriction Sites:** | SgfI-MluI |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 |

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**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.

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