

Product datasheet for MC225025

Ank1 (NM_001110783) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ank1 (NM_001110783) 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:	>MC225025 representing NM_001110783 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGGCGGCCAAACAGCTGAAGAAAATCAAAGACATCGAGGCGCAGGCCCTCCAGGAGCAGAAGG
AGAAGGAGGAATCCAACAGGAAGCGCGGAACCGCTCCCGTGACCGCAAGAAGAAGGCCGATGCTGCTAC
CAGCTTTCTCGGGCGGCACGCTCGGGAACTGGACAAGGCTCTGGATCACCTGCGCAATGGAGTGGAC
ATTAACACCTGTAACAGAACGGGTTGAACGGCCTGCATCTGGCCTCAAAGAAGGCCATGTGAAGATGG
TGTTGAACTTCTGCACAAAGAGATCATTCTAGAAACGACAACCAAGAAGGGGAACACTGCTCTGCACAT
CGCTGCCCTTGCTGGTCAAGGATGAGGTGGTCCGGGAGCTGGTCAACTATGGAGCCAATGTCAATGCCAG
TCTCAGAAAGGCTTTACTCCCCTGTACATGGCTGCTCAGGAGAACCACCTTGAAGTGGTGAATTTCTAC
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GGGTACAGAGAAATGTGGTGGCTCACCTCATCAACTATGGGACGAAAGGGAAAGTGCGCCCTCCCTGCCCTG
CACATCGCGGCCCGCAACGATGACACACGGACAGCCGAGTCTTCTGCAGAAATGACCCCAACCCAGATG
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GCTCCTCAACAGGGGAGCCAGCGTCAACTTCACACCTCAGAATGGCATCACCCCACTACACATCGCCTCC
CGCAGGGGAACGTGATCATGGTGAAGACTCCTGCTGGACCGAGGGGCTCAGATAGAAACGAGGACCAAGG
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CGGGGCACCCATCCAAGCCAAAACCAAGAATGGCTTGTCCCAATCCACATGGCCGCTCAGGAGACCAC
CTCGACTGTGTCGACTTCTATTGCAATACAATGCAGAGATAGACGACATCACCTTGGATCACCTGACTC
CTCTCCATGTGGCAGCCCACTGTGGCCACCACCGGTGGCTAAGGTTCTTTGGATAAAGGGGCCAAGCC
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GAGTTGCTGCTGAAGACAGGAGCCTCCATCGACGCGGTCACTGAGTCTGGCCTGACACCTCTCCACGTAG
CCTCCTCATGGGACACCTTCTATTGTGAAGAACTTACTGCAGCGGGGAGCGTACCCAATGTCTCCAA
TGTGAAAGTAGAAACCCCTTGACATGGCAGCCCGAGCAGGCATACAGAAGTGGCCAAATATTTGCTC



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CAGAACAAGCCAAAGCCAACGCCAAGGCCAAGGATGACCAGACACCGCTTCACTGTGCTGCTCGAATCG
 GCCACACAGGCATGGTGAAGCTCCTGCTGGAGAATGGTGCCAGCCCAATCTGGCTACCACTGCTGGCCA
 CACACCCCTACACACCGCAGCCCGTGAGGGACACGTGGACACAGCCCTGGCCCTGCTGGAGAAGGAGGCA
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 TGGCGGAGCTGCTGCTGGAACACGATGCACACCCCAATGCAGCTGGGAAGAACGGCTTGACTCCTGCA
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 GATGGCTGTATCAGAGAACACCTCGGCCTAAGCTGGGCAGAGCTGGCCCGGAGCTGCAGTTACAGCGTG
 GAAGACATCAACCGGATCCGTGTAGAAAACCTAACTCCTTGTGGACCAGAGTACAGCCTTGTGACCC
 TCTGGGTGGACCGTGAAGGCGAAAATGCAAAGATGGAGAATTTGTACACAGCCCTGCGGAACATCGACAG
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 CCCCCGCTCCCTGCAGTACGCTCTCCCTCTCCACTGTGTGCAGACCAGTACTGGAACGAAGTGGCCGT
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 TCAGGACCTGGTGGAGGACGACACAGTGGATTAGATGCCACAAATGGCCTGGCAGATTTGCTAGGTCAG
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TGTCTCTTGTTCAGGCCAGCAGCGAGTTCACGCCGAATCACAGACTCACCCCTCAGTGAGGCAGGTGCT
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 ACACAGAGCTCTGGCAAGAGGAGGTACGCAGGGCCCACTCATTCCAGAGAAGGATCACCACCATCC
 AAGGGCCGGAGCCTGGTGCCTTCAGGAATACGAGCAGGTGCTGGTGTCTACCAGGGAGCATGTGCAGAG
 GGGGCCACCTGAGACCGGCAGCCCCAAAGCTGGCAAGGAACCTAGCCTGTGGGCACCTGAGAGCGCCTTC
 TCTCAAGAGGTGCAGGGGGATGAGCTTCAGAATATTCCAGGAGAGCAGGTGACGGAGGAACAATTCACAG
 ATGAACAGGGCAACATTGTTACCAAGAAGATCATTGCAAGTCGTCCGGCAGGTAGACTCGTCTGGTGC
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 AGGAAGGGGGCTCAGATAGTGAAGCGGGCCAGCCTGAAAAGGGGCAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001110783
- Insert Size:** 5724 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).
- 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_001110783.3](#), [NP_001104253.1](#)
- RefSeq Size:** 8283 bp
- RefSeq ORF:** 5724 bp
- Locus ID:** 11733
- UniProt ID:** [Q02357](#)
- 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 (1) encodes the longest isoform (1).