

Product datasheet for MR231886

Ank1 (NM_001277281) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ank1 (NM_001277281) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ank1
 Synonyms: Ank-1; nb; pale
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR231886 representing NM_001277281
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCCGCGATCGCC

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 GGCTCCAAAGAAGGCCATGTGAAGATGGTGGTTGAACCTTCTGCACAAAGAGATCATTCTAGAAACGACA
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CAGCCCTGGCCCTGCTGGAGAAGGAGGCATCCCAAGCCTGCATGACCAAGAAAGGATTTACCCCTCTGCA
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Protein Sequence:

>MR231886 representing NM_001277281
 Red=Cloning site Green=Tags(s)

MGFCKADAATSFLRAARSGNLDKALDHLRNGVDINTCNQNGLNGLHLASKEGHVMMVVELLHKEIILETT
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 FLSPVIVEIPHFASHGRGDREL VVLRSENGSVWKEHKSRYGESYLDQILNGMDEELGSLEEELEKRVCRI
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 IYANECANFTTNVSARFWLSDCPRTAEAVHFATLLYKELTAVPYMAKFVIFAKMNDAREGLRRCYCMTDD
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 EPGGFLSFLRKTMYEDTQHILCHLNITMPPCTKGSGAEDRRRTL TPLTLRYSILSESRLGFTSDTDRVE
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 ELSQDLVEDDTVSDATNGLADLLGQEEGQRSEKKRQEVSGTEQDTETEVSLVSGQQRVHARITDSPSVRQ
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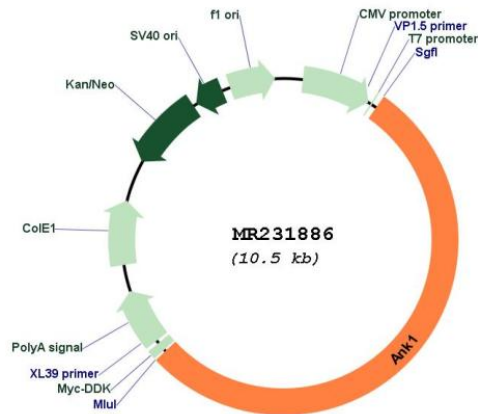
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277281

ORF Size: 5586 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001277281.2 , NP_001264210.1
RefSeq Size:	7980 bp
RefSeq ORF:	5589 bp
Locus ID:	11733
UniProt ID:	Q02357
Cytogenetics:	8 11.42 cM
MW:	204.6 kDa
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]