

Product datasheet for MR231890

Ank1 (NM_001277284) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ank1 (NM_001277284) 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: >MR231890 representing NM_001277284
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGCC**

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 GGCTCCAAAGAAGGCCATGTGAAGATGGTGGTTGAACCTTCTGCACAAAGAGATCATTCTAGAAACGACA
 ACCAAGAAGGGGAACACTGCTCTGCACATCGCTGCCCTTCTGCTGGTCAGGATGAGGTGGTCCGGGAGCTGG
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 GAACCACTTGAAGTGGTGAATTTCTACTGGAGAATGGAGCCAATCAGAATGTAGCCACAGAAGATGGC
 TTCACCCCACTGGCCGTGGCTCTACAGCAGGGTACGAGAATGTGGTGGCTCACCTCATCAACTATGGGA
 CGAAAGGGAAAGTGCCTCCCTGCCCTGCACATCGCGGCCCGCAACGATGACACACGGACAGCCGAGT
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Protein Sequence:

>MR231890 representing NM_001277284

Red=Cloning site Green=Tags(s)

MGFCKADAATSFLRAARSGNLDKALDHLRNGVDINTCNQNGLNGLHLASKEGHVKMVVELLHKEIILETT
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 FTPLAVALQQGHENNVVAHLINYGTKGKVRPALHIAARNDDTRTAAVLLQNDPNPDVLSKTGFTPLHIAA
 HYENLNVAQLLLLNRGASVNF TPQNGITPLHIASRRGNVIMVRLLLDRGAQIETRTKDEL TPLHCAARNGH
 VRISEILLDHGAPIQAKTKNGLSPIHMAAQGDHLDVRLLLQYNAEIDDI TL DHL TPLHVAACHGHRVA
 KVL LDKGAKPNSRALNGFTPLHIAACKNHIRVME LLLKTGASIDAVTESGL TPLHVASFMGHLPIVKNLL
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 DFVPKLDQVVESPAIPRIPCVPETV VVIRSEDQEASKEYDEDSLIPSSPATETSDNISPVASPVHTGFL
 VSFMV DARGGSMRGRHNGLRV VVIPPRTCAAPTRITCRLVKPQKLNTPPLAEEEGLASRIIALGPTGAQ
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 DRSEIVNMLEGSGRQSRNLK PERRHGDREYSLSPSQVNGYSSLQDELLSPASLQYALPSPLCADQYWNEV
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 GSQDLVEDD TVSDATNGLADLLGQEEGQRSEKKRQEVSGTEQDTETEVSLSVSGQQRVHARITDSPSVRQ
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_001277284.2 , NP_001264213.1
RefSeq Size:	8055 bp
RefSeq ORF:	5664 bp
Locus ID:	11733
Cytogenetics:	8 11.42 cM
MW:	207.3 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]