

Product datasheet for **RC224256**

Ankyrin brain (ANK2) (NM_001148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankyrin brain (ANK2) (NM_001148) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANK2
Synonyms:	ANK-2; brank-2; CFAP87; FAP87; LQT4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC224256 representing NM_001148 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC224256 representing NM_001148
 Red=Cloning site Green=Tags(s)

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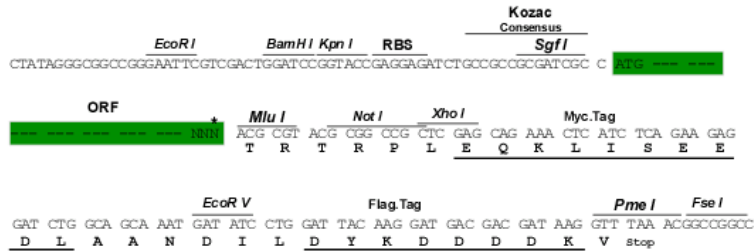
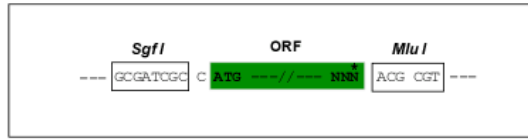
TSETQKAMIVPSSPKTPEEVSTPAEEELKYLQPTSSERGGSPIIQEPEEPSEHREESSPRKTSLVIVE
 SADNQPETCERLDEDAAFEKGDMPPEIPPETVTEEEYIDEHGHTVVKKVTRKIIIRRYVSSEGTEKEEIMV
 QGMPQEPVNIIEGDGYSKVIKRVVLKSDTEQSEDNNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
 Cloning Scheme:

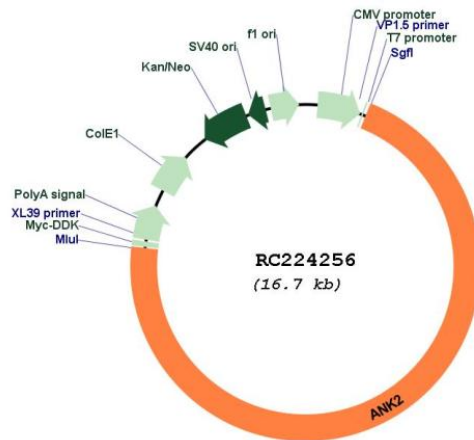
Sgfl-MluI

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001148
 ORF Size: 11871 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

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_001148.6](#)

RefSeq Size: 14243 bp

RefSeq ORF: 11874 bp

Locus ID: 287

UniProt ID: [Q01484](#)

Cytogenetics: 4q25-q26

Domains: DEATH, ZU5, ANK

Protein Families: Druggable Genome

MW: 433.7 kDa

Gene Summary:

This gene encodes a member of the ankyrin family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrins play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. The protein encoded by this gene is required for targeting and stability of Na/Ca exchanger 1 in cardiomyocytes. Mutations in this gene cause long QT syndrome 4 and cardiac arrhythmia syndrome. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Dec 2011]