

Product datasheet for RC235342

Ankyrin G (ANK3) (NM_001204403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankyrin G (ANK3) (NM_001204403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankyrin G
Synonyms:	ANKYRIN-G; MRT37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235342 representing NM_001204403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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CAGATTATTCACGAAGCTCTAGAAAGTCTGATGCCAATGCAAGTACTTAAGAGCAGCTCGAGCTGGACA
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AAGGATGACCAAAACACCACTCCACATTTAGCCCGACTGGGAAAAGCAGACATAGTACAACAGCTGTTGC
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Protein Sequence:

>RC235342 representing NM_001204403

Red=Cloning site Green=Tags(s)

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 TDIRMAIVADHLGLSWTELARELNFSVDEINQIRVENPNLSISQSFMLLKKWVTRDGKNATTDALTSVLT
 KINRIDIVTLLEGPIFDYGNISGTRSFADENNHFHDPVDGYPQLQVELETPGLHYTPPTPFQDDYFSD
 ISSIESPLRTPSRLSDGLVPSQGNIEHSADGPPVVAEDASLEDSKLEDSVPLTEMPEAVDVEDSQLENV
 CLSWQNETSSGNLESCAQARRVTGGLLDRLDDSPDQCRDSITSYLKGEAGKFEANGSHEITPEAKTKSY
 FPESQNDVGKQSTKETLKPkihGSGHVEEPASPLAAYQKSLEETSKLIIETKPCVPVSMKMSRTSPAD
 GKPRLSLHEEGSSGSEQQGEQGFVKTKKEIRHVEKSHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204403

ORF Size: 5583 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_001204403.2](#)

RefSeq Size: 9356 bp

RefSeq ORF: 5586 bp

Locus ID: 288

UniProt ID: [Q12955](#)

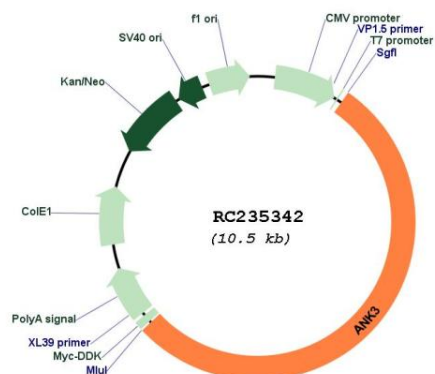
Cytogenetics: 10q21.2

Protein Families: Druggable Genome

MW: 203 kDa

Gene Summary: Ankyrins are a family of proteins that are believed to link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact, and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. 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. Ankyrin 3 is an immunologically distinct gene product from ankyrins 1 and 2, and was originally found at the axonal initial segment and nodes of Ranvier of neurons in the central and peripheral nervous systems. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC235342