OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227521

AKIRIN1 (NM_001136275) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKIRIN1 (NM_001136275) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKIRIN1
Synonyms:	C1orf108; STRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227521 representing NM_001136275
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTGCGGGGCGACGCTGAAGCGGCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCGA
AGCGGCGGCGCTGCGCCCCTCTGCCCGGCCCCACTCCGGGCCTCAGGCCCCCGGACGCCGAGCCGCCGCC
GCCGTTTCAGACGCAGACCCCACCGCAGAGTCTGCAGCAGCCCGCCCCGCCCGGCAGCGAGCGGCGCCTT
CCAACTCCGGAGCAAATTTTTCAGAACATAAAACAAGAATATAGTCGTTATCAGAGGTGGAGACATTTAG
AAGTTGTTCTTAATCAGAGTGAAGCTTGTGCTTCGGAAAGTCAACCTCACTCCTCAGCACTCACAGCACC
TAGCTCTCCAGAACAATATGAATCTTTTGTGAAATTCACACATGATCAGATTATGCGACGGTATGGGACA
AGGCCAACAAGCTATGTGTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227521 representing NM_001136275
Red=Cloning site Green=Tags(s)

MACGATLKRPMEFEAALLSPGSPKRRRCAPLPGPTPGLRPPDAEPPPPFQTQTPPQSLQQPAPPGSERRL
PTPEQIFQNIKQEYSRYQRWRHLEVVLNQSEACASESQPHSSALTAPSSPEQYESFVKFTHDQIMRRYGT
RPTSYVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

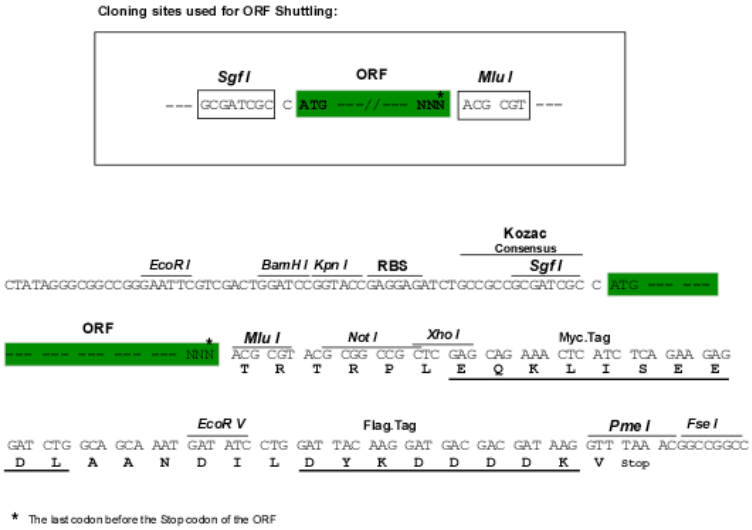
Chromatograms: https://cdn.origene.com/chromatograms/mk8037_g10.zip

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136275

ORF Size: 441 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:
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_001136275.1, NP_001129747.1

RefSeq ORF: 444 bp

Locus ID: 79647

UniProt ID: Q9H9L7

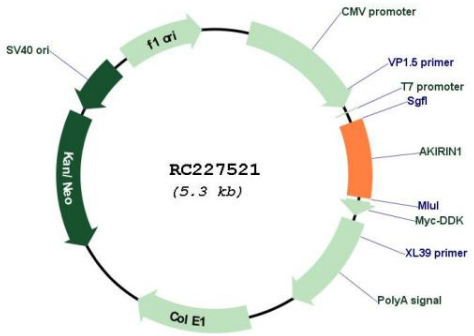
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cytogenetics: 1p34.3

MW: 16.3 kDa

Gene Summary: Functions as signal transducer for MSTN during skeletal muscle regeneration and myogenesis. May regulates chemotaxis of both macrophages and myoblasts by reorganising actin cytoskeleton, leading to more efficient lamellipodia formation via a PI3 kinase dependent pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227521

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US