

Product datasheet for RC226549

Girdin (CCDC88A) (NM_001135597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Girdin (CCDC88A) (NM_001135597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Girdin
Synonyms:	APE; GIRDIN; GIV; GRDN; HkRP1; KIAA1212; PEHO; PEHOL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226549 representing NM_001135597 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC226549 representing NM_001135597
 Red=Cloning site Green=Tags(s)

MENEIFTPLEQFMTSPLVTVWKTGFLAAGNGTNLDEYVALVDGVFLNQVMLQINPKLESQRVNNKVVNN
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 FIERIQGLDFDTKAAVAHIQEVTHNQENVFDLQWMEVTDMSQEDIEPLLKNMALHLKRLIDERDEHSET
 IIELSEERDGLHFLPHASSAQSPGSPGMRTERSRQHL SVELADAKAKIRRLRQLEEKTEQLLDCKQE
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 EDNQVLL ETKTML EDQLEGRTRSDKLEHEKENLQLKAKLHDMEMERMDRKKIEELMEENMTLEMAQK
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 VNSSAGFRSKQLVNNKDTTSFEDISPQGVSDSSTGSRVHASRPASLDSGRTSTSNNSNNASLHEVKAGA
 VNNQSRPQSHSSGEF SLLHDHEAWSSSGSPIQYLKRQTRSSPVLQHKISETLESRHHKIKTGPSPGSEVV
 TLQQFLEESNKLTSVQIKSSSQENLLDEVMKSLSVSSDFLGKDKPVSCGLARSVSGKTPGDFYDRRTTKP
 EFLRPGPRKTEDTYF ISSAGKPTPGTQGGIKLVKESSLRQSKDSNPYATLPRASSVISTAEGTTRRTSI
 HDFLTKDSRLPISVDSPPAAADSNTTAAASNVDKQVESRNSKSRSREQQSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8031_h11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001135597

ORF Size: 5610 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_001135597.2](#)

RefSeq ORF: 5613 bp

Locus ID: 55704

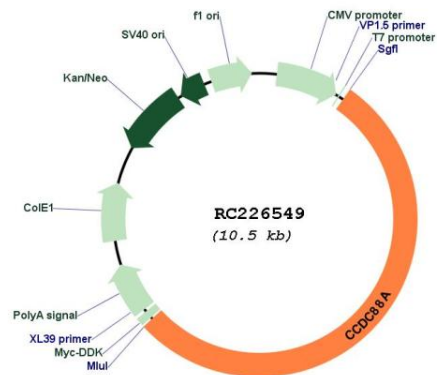
UniProt ID: [Q3V6T2](#)

Cytogenetics: 2p16.1

MW: 215.8 kDa

Gene Summary: This gene encodes a member of the Girdin family of coiled-coil domain containing proteins. The encoded protein is an actin-binding protein that is activated by the serine/threonine kinase Akt and plays a role in cytoskeleton remodeling and cell migration. The encoded protein also enhances Akt signaling by mediating phosphoinositide 3-kinase (PI3K)-dependent activation of Akt by growth factor receptor tyrosine kinases and G protein-coupled receptors. Increased expression of this gene and phosphorylation of the encoded protein may play a role in cancer metastasis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC226549