

Product datasheet for **RC225271**

DIPK2A (NM_001134470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIPK2A (NM_001134470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIPK2A
Synonyms:	C3orf58; DIA1; GoPro49; HASF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225271 representing NM_001134470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCGGAGAACGGGACAGTGGTCGGGAGTTTTCCGTCTGATGAAGTTGGCCATTTGCAAAGTATC
TTGGAGCTTGGAAGAATGGTGGCTGTAATTATGTTGGAGAAGAACTGTGGAGTTACTTTAATGCGCC
ATGGGAAAACGAGTTGACCTCGCTTGGCAATTAATGAAATAGCAGAACAGCTTACAAACAATGACTTT
GAATTTGCACTCTACCTCCTGGACGTCACTTTGACAATTTGCAGTTGGTCCTAGAGATGGGAAGGTAA
TCATTGTGGATGCTGAAAATGTTTTGGTTGCTGACAAAAGATTAATTAGACAAAATAAACCTGAAAATTG
GGATGTATGGTATGAAAGCAAGTTTGATGACTGTGATAAGGAGGCTTGCTTATCATTTTTCAAAGAAATT
CTTTGTGCTCGTGCCACTGTGGACCACAATTAATGCTGTTTGTGAGAACCTCTTATCCAGACATGCCA
CCTGGCGTGGCACTTCTGGAGGACTCCTTCATGATCCACCAAGTAAAATTGCCAAAGATGGCCGGCTCGA
GGCCTTGCTGGATGAGTGTGCCAACCAAGAAGCGCTATGGCAGATCCAGGCTGCAAAAAGAACTGCGT
GAATACCTAGCACAAATTAAGTAACAACGTGAGG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225271 representing NM_001134470
Red=Cloning site Green=Tags(s)

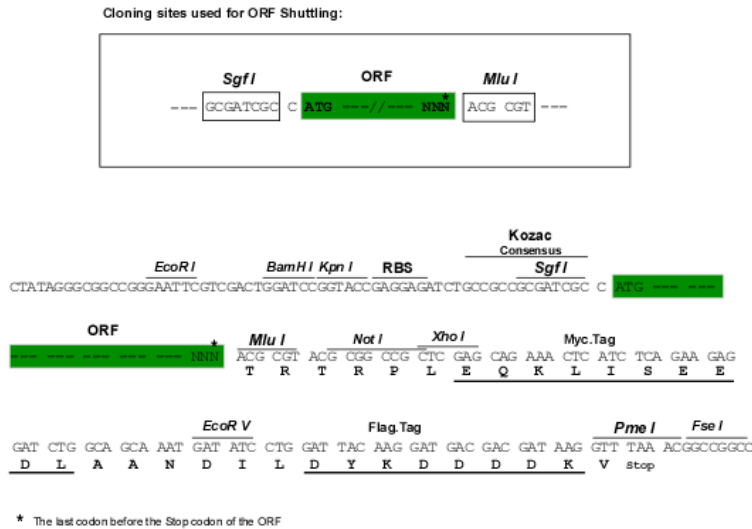
MKSENGTVVGSFSPSDEGWPF~~AKYL~~GACGRMVAVNYVGEELWSYFNAPWEKRV~~DLAWQLMEIAEQL~~TNND~~F~~
 EFALYLLDV~~S~~FDNF~~AVGPRD~~GKVIIVDAENLVADKRLIRQNKPENWDVWY~~ESKFDDCDKEACLSFSKEI~~
 L~~C~~ARATVDHNYAVCQ~~NLLSRHATWRGTSGLLH~~DPPSEIAKDG~~RLEALLDECANPKKRYGRFQAAKELR~~
 EYLAQLSNNVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8033_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001134470

ORF Size: 663 bp

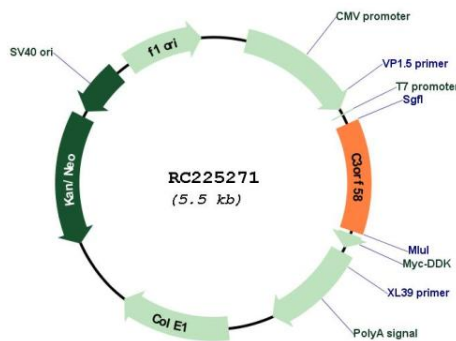
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

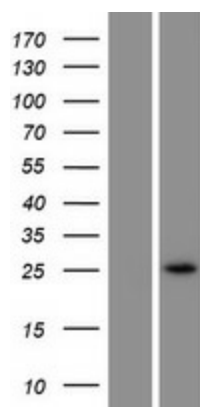
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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_001134470.2](#)
- RefSeq ORF:** 666 bp
- Locus ID:** 205428
- UniProt ID:** [Q8NDZ4](#)
- Cytogenetics:** 3q24
- MW:** 25 kDa
- Gene Summary:** May play a role in cardiomyocyte proliferation through paracrine signaling and activation of the PPI3K-AKT-CDK7 signaling cascade.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225271



Western blot validation of overexpression lysate (Cat# [LY427450]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225271 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).