

Product datasheet for **MC224974**

Ccdc88a (NM_176841) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc88a (NM_176841) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccdc88a
Synonyms:	A430106J12Rik; A1848406; Ape; C130096N06Rik; C330012F17Rik; D130005J21Rik; Girdin; Giv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_176841
Insert Size:	5538 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](#)

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).
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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_176841.4](#), [NP_789811.2](#)

RefSeq Size: 8862 bp

RefSeq ORF: 5538 bp

Locus ID: 108686

UniProt ID: [Q5SNZ0](#)

Cytogenetics: 11 A3.3

Gene Summary: Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation (PubMed:19778506). Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself (PubMed:15753085). Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (PubMed:15753085). Essential for the integrity of the actin cytoskeleton and for cell migration (By similarity). Required for formation of actin stress fibers and lamellipodia (By similarity). May be involved in membrane sorting in the early endosome (By similarity). Plays a role in ciliogenesis and cilium morphology and positioning and this may partly be through regulation of the localization of scaffolding protein Crocc/Rootletin (By similarity).[UniProtKB/Swiss-Prot Function]