

Product datasheet for RC217675

DAAM1 (NM_014992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAAM1 (NM_014992) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAAM1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC217675 representing NM_014992 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGCTTCCCCCTCCACCGCCTCCCTCCCTCCAGGTGGCCCTCCTCCTCCCCAGGGCCTCCTCCCTTAG
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Protein Sequence:

>RC217675 representing NM_014992
 Red=Cloning site Green=Tags(s)

MAPRKRGRGISFIFCCFRNDHPEITYRLRNDNSNFALQTMPEALPMPVVEELDMVMSSELVDELDTDKH
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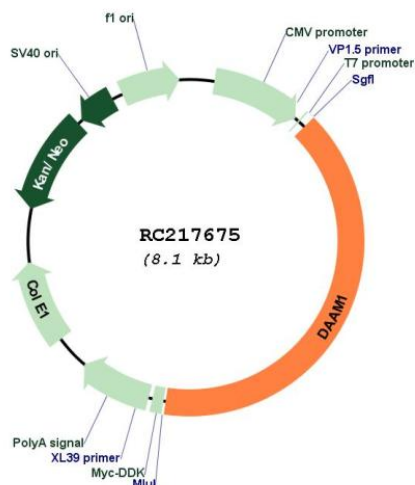
Chromatograms:

https://cdn.origene.com/chromatograms/mk6683_a04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

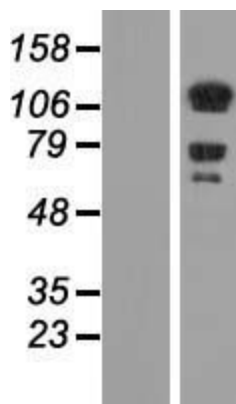
Plasmid Map:

ACCN: NM_014992

ORF Size: 3234 bp

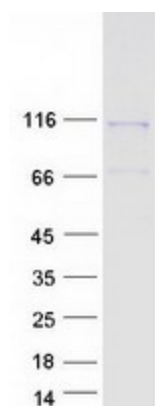
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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:	<u>NM_014992.2</u>
RefSeq Size:	4256 bp
RefSeq ORF:	3237 bp
Locus ID:	23002
UniProt ID:	<u>Q9Y4D1</u>
Cytogenetics:	14q23.1
Domains:	FH2
Protein Pathways:	Wnt signaling pathway
MW:	123.3 kDa
Gene Summary:	Cell motility, adhesion, cytokinesis, and other functions of the cell cortex are mediated by reorganization of the actin cytoskeleton and several formin homology (FH) proteins have been associated with these processes. The protein encoded by this gene contains two FH domains and belongs to a novel FH protein subfamily implicated in cell polarity. A key regulator of cytoskeletal architecture, the small GTPase Rho, is activated during development by Wnt/Fz signaling to control cell polarity and movement. The protein encoded by this gene is thought to function as a scaffolding protein for the Wnt-induced assembly of a disheveled (Dvl)-Rho complex. This protein also promotes the nucleation and elongation of new actin filaments and regulates cell growth through the stabilization of microtubules. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jul 2012]

Product images:



Western blot validation of overexpression lysate (Cat# [LY414886]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217675 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DAAM1 protein (Cat# [TP317675]). The protein was produced from HEK293T cells transfected with DAAM1 cDNA clone (Cat# RC217675) using MegaTran 2.0 (Cat# [TT210002]).