

Product datasheet for MR231555

Daam1 (NM_172464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Daam1 (NM_172464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Daam1
Synonyms:	1700066F09Rik; 2310028E21Rik; AI503486; E130308H01; mKIAA0666
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231555 representing NM_172464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCACGGAAGAGAGGGCGGCCGGGGATTTCATTTATCTTTTGTGTTTCCGAAACAATGACCATC
CAGAAATCACATATCGGCTTAGGAATGATAGCACTTTGCACTTCAGACAATGGAGCCGGCGCTGCCCAT
GCCCCCTGTGGAGGAGCTCGATGTCATGTTTCAGTGAACCTGTGGATGAACCTGACCTCACAGACAAACAC
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AAGAAAAAAGGGAGCAACCAGTTGGCCCGAGTTCTACATTGATCAGCTCAATCCATGGCTGCTAGGAA
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CTGAGAACCAAGCCCATGAGGTTTGAACCAGATTCATCGACTTGGATGGCCTGTCATGTATTCTCAACT
TTCTGAAGACCATGGACTATGAGACCTCTGAGTCTCGGATACACACCTCCCTCATTGGCTGTATAAAGGC
ACTAATGAACAACCTCAAGGCCGGGCCATGTCCTGGCTCATTCTGAGAGTATCAATGTAATTGCTCAG
AGTCTGAGCACAGAGAACATTAACAAGGTGGCCGTGCTGAAATCCTGGGCGCTGTGTGCTGGTTC
CTGGGGCCACAAGAAAGTTCTGCAAGCTATGCTGCACTACCAGAAGTATGCCAGCGAGAGAACCCGCTT
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 AGAGAGTGGAGAGTTTGCAGACCTGGTCTCGGCGCTGCGCTCAGGAGAGGTGTTGACAAAAGACCTTTCA
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 AACTTAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231555 representing NM_172464
 Red=Cloning site Green=Tags(s)

MAPRKRGGRGISIFCCFRNNDHPEITYRLRNDNFALQTMPEALPMPVVEELDMFSELVDELDTDKH
 REAMFALPAEKKWQIYCSKKKQDQENKATSWPEFYIDQLNSMAARKSLLEKEEEEEERSKTIESLKTA
 LRTKPMRFVTRFIDLGLSCILNFKTMDYETSESRIHTSLIGCIKALMNSQGRAHVLHSESINVIAQ
 SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASERTRFQTLINDLDKSTGRYRDEVSLKTA
 IMSFINAVLSQGAGVESLDFRLHLRYEFLMLGIQPVIDKLREHENSTLDRHLDFFEMLRNEDELEFAKRF
 ELVHIDTKSATQMFELTRRRLTHSEAYPHFMSILHHCLQMPYKRSNGTVQYWLLLDRIIQQIIVIQNDKGQ
 DPDSTPLENFNIKNVVRMLVNEVEVQWKEQAEMRKEHNELQQKLEKKERECDAKTQEKEEMMQLNKM
 KEKLEKETTEHKQVQVADLTAQLHELNRRAVCAAVPGGSPGAPGGPFPSSGLGSLPPPPPLSGG
 ALPPPPPLPPGGPPPPGPPPLGGVLPVPPGAPVSLTLKKNIPQPTNALKSFNWSKLPENKLDGTVWTE
 IDDTKVFILDLERTFSAYQRQEFFVNNKQKEADAIDDTLSSKLVKELSVIDGRRANQNCILLS
 RLKLSNDEIKRAILTMDEQEDLPKDMLEQLLKFVPEKSDIDLLEEHKHELDRAKADRFLFEMSRINHYQ
 QRLQSLYFKKKFAERVAEVKPKVEAIRSGSEEVFRSRALKQLLEVVLAFGNMNGQQRGNAYGFKISSLN
 KIAADTKSSIDKNITLLHYLITIVENKYPKVLNLSEELRIDIPQAAKVNMTELDKEISTLRSGLKAVETELE
 YQKSQPPQPGDKFVSVVSQFITLASFSDVEDLLAEAKELFTKAVKHFGEAEAGIQPDEFFGIFDQFLQ
 AVAEAKQENENMRKRKEEEERRARLEAQLKEQREERERKVRKAKESSEESGEFDDLVSALRSGEVFDKLS
 KLKRNKRIRISNQVTDSSRERPITKLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172464

ORF Size: 3231 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_172464.3](#), [NP_766052.2](#)

RefSeq Size: 5888 bp

RefSeq ORF: 3234 bp

Locus ID: 208846

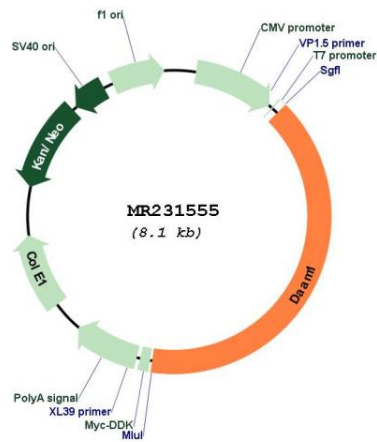
UniProt ID: [Q8BPM0](#)

Cytogenetics: 12 C3

MW: 123.4 kDa

Gene Summary: Binds to disheveled (Dvl) and Rho, and mediates Wnt-induced Dvl-Rho complex formation. May play a role as a scaffolding protein to recruit Rho-GDP and Rho-GEF, thereby enhancing Rho-GTP formation. Can direct nucleation and elongation of new actin filaments (By similarity). Involved in building functional cilia. Involved in the organization of the subapical actin network in multiciliated epithelial cells (By similarity). Together with DAAM2, required for myocardial maturation and sarcomere assembly (PubMed:26526197).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231555