

Product datasheet for **RG217675**

DAAM1 (NM_014992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAAM1 (NM_014992) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217675 representing NM_014992 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCAAGAAAGAGAGGTGGACGAGGTATTTCAATCATCTTTTGCTGTTCCGAAATAATGATCACC
CAGAAATCACGTATCGGCTGCGAAATGATAGCACTTTGCGCTTCAGACCATGGAACCAGCATTGCCCAT
GCCCCCTGTGGAGGAGCTGGATGTCATGTTTCAGTGAACGGTGGTGAACGGACCTCACAGACAAACAC
AGAGAAGCCATGTTTGCACCTCCAGCTGAGAAAAATGGCAAATACTGTAGCAAGAAAAAGACCAGG
AAGAAAAACAAGGGAGCTACAAGTTGGCCTGAATTCACATTGATCAGCTCAATCCATGGCTGTAGAAA
ATCTCTGCTGGCTTTAGAGAAGGAAGAAGAAGAAGAAAGTAAACTATAGAGAGTTTAAAGCAGCA
CTGAGGACAAAACCAATGAGGTTTGAACCAAGTTCATCGACTTGGATGGCCTATCATGTATCCTCAACT
TTCTAAAGACCATGGACTACGAGACCTCAGAGTCTCGAATACATACTTCTCATTGGCTGTATAAAGGC
GTTAATGAACAACCTCAAGGCCGGCTCACGTCTGGCTCATTCTGAGAGTATTAATGTAATTGCTCAG
AGTCTGAGCACAGAGAACATTAACCGAAGGTGGCCGTGCTGAAATCTGGGCGCCGTGTGCTGGTTC
CCGGGGGCCACAAGAAGGTTCTGCAGGCCATGCTGCACTACCAGAAGTATGCCAGCGAAAGGACCCGCTT
TCAGACATTAATTAACGACTTGGATAAAAGCACTGGGCGGTATCGAGATGAAGTGAGTCTCAAGACTGCC
ATCATGTCCTTCATTAATGCAGTCTCAGCCAAGGTGCAGGAGTGGAGAGTTGGACTTTAGACTTCATC
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AGGGCCCTTTCCTTCTCTGTGCCTGGATCTCTCCTTCTCCCCACCACCCCTCTACCAGGTGGG
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 GAAGCACTTTGGGAAGAGGCTGGCAAAATACAACCAGATGAGTCTTTGGCATTGTTGATCAATTTCTT
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 CTCGCATGGAAGCTCAGCTCAAAGAACAACGTGAAAGGGAACGTAATGAGAAAAGCTAAAGAGAATAG
 TGAAGAAAAGCGGAGAGTTTGTGACCTTGTTCAGCTTACGCTCAGGAGAAGTGTGACAAAAGACCTT
 TCTAAATTGAAACGGAATCGCAAACGTATTACCAACCAGATGACTGACAGCAGCAGAGAGACCAATCA
 CAAAACCTAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217675 representing NM_014992
 Red=Cloning site Green=Tags(s)

MAPRKRGRGISFIFCCFRNDHPEITYRLRNDNFALQTMPEALPMPVVEELDMVMSSELVDELDTDKH
 REAMFALPAEKKWQIYCSKPKDQENKCATSWPEFYIDQLNSMAARKSLLALEKEEEEEERSKTIESLKTA
 LRTKPMRFVTRFIDLGLSCILNFKTMDYETSESRIHTSLIGCIKALMNSQGRAHVLHSESINVIAQ
 SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASERTRFQTLINDLDKSTGRYRDEVSLKTA
 IMSFINAVLSQGAGVESLDFRLHLRYEFLMLGIQPVIDKLREHENSTLDRHLDFEMLRNEDELEFAKRF
 ELVHIDTKSATQMFELTRKRLTHSEAYPHFMSILHHCLQMPYKRSNGTVQYWLLLDRIIQQIVIQNDKGQ
 DPDSTPLENFNIKVVMLVNENEVKQWKEQAEMRKEHNEQLQKLEKKERECDAKTQEKEEMMQLNKM
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 IDDTKVKFILDLEDLERTFSAYQRQQDFVNSNSKQKEADAIDDTLSSKLKVKELSVIDGRRAQNCNILL
 SRLKLSNDEIKRAILTMDEQEDLPKDMLEQLLKFVPEKSDIDLLEEHKHELDMAKADRFLEMSRINH
 QQRLQSLYFKKKFAERVAEVKPKVEAIRSGSEEVFRSGALKQLLEVVLAFGNYMNGQRGNAYGFKISSL
 NKIADTKSSIDKNITLLHYLITIVENKYPSVLNNEELRDIPQAQKVNMTELDKEISTLRSGLKAVETEL
 EYQKSQPPQPGDKFVSVVSQFIVASFSDVEDLLAEAKDLFTKAVKHFGEAGKIQPDEFFGIFDQFL
 QAVSEAKQENENMRKKKEEERRARMEQLKEQREERERKMRKAKENSEESGEFDDLVSALRSGEVFDKDL
 SKLKRNRKRITNQMTDSSRERPITKLN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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:

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_014992.2](#)

RefSeq Size: 4256 bp

RefSeq ORF: 3237 bp

Locus ID: 23002

UniProt ID: [Q9Y4D1](#)

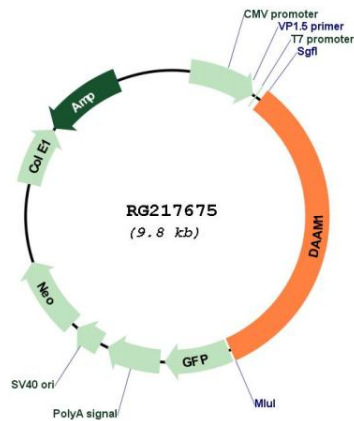
Cytogenetics: 14q23.1

Domains: FH2

Protein Pathways: Wnt signaling pathway

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:



Circular map for RG217675